

Room No: \_\_\_\_\_

Regd No \_\_\_\_\_

**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I Degree (ALL)

Subject : English

Title of Paper : A Course in Reading & Writing Skills

Paper Code : R23ENG201

W.E.F : 2023-24

Max Marks : 60

Pass Mark : 24

Duration : 3Hrs

Time : 9am - 12noon

Date : 04.05.2024

**SECTION-A**

**(Poetry)**

**I. Answer any THREE questions from the following :**

**3X4=12M**

1. What is the central theme of "Ulysses" by Alfred, Lord Tennyson?
2. How does Tennyson portray Ulysses in the poem "Ulysses"? Is he heroic or selfish.
3. Why does the speaker stop in the woods on the darkest evening of the year? What do the woods symbolize?
4. What is the central idea of the poem "Stopping by Woods on a Snowy Evening"?
5. How does Ezekiel describe the incident, the suspense, fear, superstition surrounding the incident in the poem, 'The Night of the Scorpion'?
6. What does the mother's reaction to the scorpion's sting suggest about her character?

**(Prose)**

**II. Answer any THREE questions from the following :**

**3X4=12M**

1. How did the couple help derelict adolescents to lead normal lives?
2. Why did the young man try to commit suicide? How did the three witnesses help the young man?
3. How did A.J. Cronin display his humanity according to the lesson "The Best Investment I Ever Made"?
4. What happened when the train stopped at Deoli? Describe the meeting between the boy and the basket girl?
5. Summarise Ruskin Bonds "The Night train at Deoli" in your own words?
6. Write down the various feelings and emotions undergone by the speaker in the lesson "The Night train at Deoli"

**(Non-Detail)**

**III. Answer any TWO questions from the following**

**2X3=6M**

1. Why was Florence Nightingale called "The Lady with the Lamp"? Describe her service to the wounded soliders in Scutari Hospital.
2. How did Abrar Moshin depict the greatness of Florence Nightingale?
3. Describe R.K.Narayan's "An Astrologer's Day" as a story about human greed.
4. Who is Guru Nayak? Describe the ironic meeting between the astrologer and Guru Nayak

**[P.T.O]**

2

**SECTION B**

**IV. A) Pick the correct form of words:**

**1/2X4=2M**

- a) Why do you speak \_\_\_\_\_ with strangers( anger, angry, angrily).
- b) He \_\_\_\_ to the college everyday (go, goes, going)
- c) Sheela \_\_\_\_ to be a police officer when she grows up( want, wants)
- d) They \_\_\_\_ till ~~the~~ evening(play, played, playing)

**B) Match the following words with their meanings:**

**6X1=6M**

**A**

**B**

- |                |   |
|----------------|---|
| 1. Manuscript  | a) a medicine to counteract the effect of poison. |
| 2. Germicide   | b) one who looks at the bright side of things.    |
| 3. Bureaucracy | c) walk on foot.                                  |
| 4. Optimist    | d) a substance that kills germs.                  |
| 5. Pedestrian  | e) government officials.                          |
| 6. Antidote    | f) A paper written by hand.                       |

**C) Fill in the blanks with the correct words given in the brackets:**

**1/2X4=2M**

- 1. The Woman \_\_\_\_\_ I met was Jeremy( which, whom).
- 2. Eva has not taken \_\_\_\_\_ food(some, any).
- 3. Nobody \_\_\_\_\_ the fact( know, knows).
- 4. Hard works \_\_\_\_\_ success(bring, brings).

**V. Write a short note on Skimming and Scanning.**

**1X5=5M**

**VI. Read the following paragraph below and answer the questions that follows:5X1=5M**

Archaeology as a profession faces two major problems. First, it is the poorest of the poor. Only paltry sums are available for excavating and even less is available for publishing the results and preserving the sites once excavated. Yet archaeologists deal with priceless objects every day. Second, there is the problem of illegal excavation, resulting in museum-quality pieces being sold to the highest bidder. I would like to make an outrageous suggestion that would at one stroke provide funds for archaeology and reduce the amount of illegal digging. I would propose that scientific archaeological expeditions and governmental authorities sell excavated artifacts on the open market. Such sales would provide substantial funds for the excavation and preservation of archaeological sites.

**Questions:**

- 1. Why is Archaeology considered as the poorest of the poor professions?
- 2. What are funds in Archaeology needed for?

**[Continued To Next Page]**



3. What is the second major problem in this profession?
4. What according to the author can provide substantial funds for the excavation and preservation of archaeological sites?
5. What is the synonym for the word 'excavating'.

**(OR)**

**Read the following passage and make notes:**

Homoeopathy has come to be known, over the years, as a form of medical treatment without side effects. In the eighteenth century, Dr Samuel Hahnemann, convinced that existing medical practices did more harm than good, began to look for an alternative that would be safe, gentle, and effective. He reasoned that instead of suppressing symptoms as allopathy does, one should seek to stimulate and so encourage and assist the body's natural healing process. Hahnemann had already discovered that a small dose of quinine in a healthy person produced the symptoms of malaria. A number of systematic experiments followed this discovery. Hahnemann then worked to establish the smallest effective dose as he realised that this was the best way to avoid side effects. In so doing, he unexpectedly discovered one of the basic tenets of homoeopathy, that the more a remedy was diluted, the more effective it became. Thus, by trial and perseverance, Hahnemann finally arrived at his goal.

One of the principles of homoeopathy is that a person's response to a disease varies according to his or her basic temperament. Thus, a homoeopathy doctor will take into account the patient's temperament and responses to certain conditions before prescribing any medicine because it is the patient who is being treated and not the disease. Patients with the same ailment may often require different remedies.

Homoeopathy does not reject the great discoveries of modern science, only their commercial abuse. In many cases, homoeopathy is complementary to the newer methods of modern medical practice.

**VII. Answer any one of following :**

**1X5= 5M**

**A. Expand any one of the ideas**

- I. All that glitters is not gold/precious.
- II. A stitch in time saves nine.

**(OR)**

**B. Define the following terms:**

- I. Notice.
- II. Agenda
- III. Minutes

**[Continued To Next Page]**

**VIII. Answer the following.**

4  
1X5=5M

Write a C.V. applying for the post of lecturer in Computer science in an esteemed college.

**(OR)**

Write a letter to the principal asking permission to take leave for 10 days as you are going to attend an International conference in Bangalore.

**(OR)**

Write an e-mail to [hiteshtravelagency@gmail.com](mailto:hiteshtravelagency@gmail.com) seeking information about the summer tour packages for 15 days.



Room No: \_\_\_\_\_

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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**  
**II – SEMESTER END EXAMINATIONS**

Class : I Degree (All Groups)  
Subject : English  
Title of Paper : A Course in Reading And Writing Skills  
Paper Code : R20ENG201A  
W.E.F : 2022-23

Max Marks : 60  
Pass Mark : 24  
Duration : 3 Hrs  
Time : 9am - 12 noon  
Date : 04.05.2024

**I. Answer any THREE Questions from the following :**

**3X4=12M**

1. Describe the character of Kezia.
2. What does the Katherine Mansfield want to convey through the story "The Doll's House"
3. What is the mystery about Deoli station that Ruskin Bond talked about.
4. Describe what happened at the Deoli station on the author's return journey from Dehra after two months.
5. What examples does Betrand Russell give to those who have opinions that flatter their self-esteem?

**II. Answer any THREE Questions from the following :**

**3X4=12M**

1. Why does the poet want to become the West wind and how does he justify that the west wind is super power?
2. What did the ascetic do when he saw the dancing girl In a desperate situation?
3. Describe a typical day of a fisher man as portrayed in the poem Coramandel fishers.
4. "The sea is your mother, the clouds are your brothers and the tides are comrades" explain the meaning of these lines.
5. How is the spring season described in the poem Upagupta?

**III. Answer any THREE Questions from the following :**

**3X4=12M**

1. How did Nightingale bring about a change in the hospital in Scutari?
2. Why did Sydney Herbert request nightingale to go, Crimea?
3. What is the role of fate and chance in the story, "An Astrologer's day?"
4. What did astrologer ask Gurunayak to do?
5. What did astrologer carry with him?

**IV. Answer the following**

**1. Fill in the blanks with a suitable given in the brackets:**

**4X1=4M**

- a) Study of religion (Theology/Psephology)
- b) Fear of heights (Hydrophobia/Aerophobia)
- c) \_\_\_\_\_ music thundered from my neighbouring house. (Loud/Loudly)
- d) They have been living happily \_\_\_\_\_ Ten years . (Since/for)

**2. Read the given paragraph and answer the questions that follow:**

**1X4=4M**

About a hundred years ago whenever an operation was performed, that patient suffered tearful pain as he felt the surgeon cut into his flesh. But now serious operations have been carried out without pain, and thousands of lives have been saved. James Simpson was the first to discover and use the pain-killing power of chloroform. James was born in a poor family. So in boyhood, he had not only to help his father in the holidays but also assist the village doctor. But he was horrified at the terrible suffering of the people who came to the hospital for treatment. He now made it his aim in life to find out new discoveries which would prevent so much pain. Simpson made many experiments and ultimately discovered chloroform. Now the patient does not dread an operation.

- (a) Why did patients suffer tearful pain when an operation was performed in the past?
- (b) Who discovered chloroform?
- (c) What did he do in his boyhood?
- (d) What made him horrified?

[P.T.O.]



6

(OR)

**3. Read the following passage and make notes:**

Jawaharlal Nehru treated parliament with a difference because he believed in the value of parliamentary democracy in the value of good precedents. And in the lying down and crying out of policies with the consent of people or their representatives. It was not easy for with the vast burden of illiteracy , the country had started with adult suffrage to Jawaharlal Nehru, there was no other way, with many limitations, he enabled three general elections to Democracy. Any democracy whatever the forms and the rules , is government by Deliberation and it demands a capacity for debate and he taught the lesson ceaselessly. Democracy must ensure a good government. It must allow criticism and correction; it means balances and checks.

**4. Expand any one of the following ideas:**

**1X4=4M**

- a. A rolling stone gathers no moss.
- b. A book cannot be judged by its corner.

OR

**5. Describe the following terms**

- a. Agenda                      b. Notice                      c. Minutes

**6. Answer any question from the following:**

**1X4=4M**

- a. What are the differences between and scanning?

OR

- b. How are note<sup>t</sup> making<sup>a</sup> and note taking useful?

**7. Answer any two questions from the following:**

**2X4=8M**

- a. Explain the structure of the CV.
- b. Write a letter to the principal with a request for organizing a study tour
- c. Write an email letter to you librarian requesting him/her to renew the date of the books you have borrowed as you are unable to travel to college.



Room No: \_\_\_\_\_

Regd No: \_\_\_\_\_

**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)****II – SEMESTER END EXAMINATIONS**

Class : I Degree(All Groups)

Max Marks : 75

Subject : English

Pass Mark : 30

Title of Paper : A Course in Reading &amp; Writing Skills

Duration : 3 Hrs

Paper Code : R20ENG201

Time : 9am - 12noon

W.E.F : 2023-24

Date : 04.05.2024

**SECTION-A****I. Answer any three questions from the following:****3×5=15 M**

1. What do you learn from the example about Aristotle?
2. Describe the Doll's house of the children.
3. How does Katherine Mansfield present the class conflict between innocence and experience through this story?
4. Why did the author wonder about Deoli station?
5. Where would the author spend his summer vacation? When would he leave for the vacation and return to college?

**II. Answer any three questions from the following:****3×5=15 M**

6. What effect does the west wind have on the ocean?
7. How do we know that the dancing girl was rich?
8. Why didn't Upagupta accept the invitation of the dancing girl?
9. What is the central theme of the poem "Coromandel Fishers"?
10. What are the problems faced by the Coromandel Fishers?

**III. Answer any three questions from the following:****3×5=15 M**

11. Why did Astrologer run away from the village?
12. What did the Astrologer ask Guru Nayak to do?
13. What did the Astrologer carry with him?
14. What did Florence Nightingale want to become? Why were her parents unhappy with her choice?
15. Why was she called "The lady with the Lamp"?

**IV Answer the following:****I. Fill in the blanks with a suitable answer given in the brackets.****5×1=5M**

1. One who believes in fate.( Egoist/Fatalist)
2. Writing that is impossible to read.( Legible/illegible)
3. It is raining -----.(strongly/heavily)
4. Could you ----- me a favour and open the window a little?(do/make)
5. One who believes in God.( Atheist/theist)

**2. Read the given paragraph and answer the questions below.****1×5=5 M**

There was a Guru who had mastered the Scriptures. One day when he was teaching the vedas to his disciples, a cat started moving around. This did not disturb the Guru, but was a distraction to some of his disciples. So the Guru instructed his disciples to get hold of the cat and tie it to pillar. As the nuisance recurred on the following days, the cat was regularly tethered to the pillar before the Guru began his teaching.

Some years later the Guru died. One of his disciples became the new head. The practice of lethering the cat to the pillar continued; After a few months the cat died. When the Guru began his teaching the next day he noticed that the cat was missing. He said, "Don't you know that a cat must be tied to the pillar during my teaching? That is our tradition. Go and find a cat". The disciples immediately obeyed the order.

**[P.T.O]**



Blindly following traditions, thus, is foolish and serves no purpose.

**Questions**

1. Why were the disciples distracted?
2. What was done to prevent the cat from roaming about?
3. Who became the new head?
4. What practice continued after the new Guru took charge?
5. The new Guru was foolish because....(Choose the best answer)
  - i) He was blindly following a practice
  - ii) He was fond of cats
  - iii) He disliked traditions

**(OR)**

**3. Read the following passage and make notes:**

Drug related health disorders are many and varied. Dirty needles and solutions used for injecting drugs can easily cause abscesses in the arms and veins, liver disease, venereal disease, disease and infection of the kidneys and brain. Sniffing cocaine and anaphetamines can damage the tissue of the nose and Marijuana and tobacco smoking can cause lung diseases. Heavy users of alcohol volatile solvents, amphetamines or marijuana may find that their livers are permanently damaged. Babies of women addicted to opiates are likely to be born addicted and to suffer from withdrawal symptoms. Cocaine and amphetamines can cause hair loss. Recent research has indicated that marijuana can damage cells. A drug user's way of life makes him more susceptible to pneumonia, tuberculosis, malnutrition and weight loss. Finally, an overdose of any of the sensual drugs can lead to respiratory or cardiac failure and death,

**4. Expand any one of the following Ideas:**

**1×5=5M**

- a) A rolling stone gathers no moss.
- b) A thing of beauty is a joy forever.

**(OR)**

**5. Describe the following terms:**

- a) Minutes.
- b) Agenda.
- c) Notice

**6. Answer any question from the following.**

**1×5=5 M**

1. What is Skimming?

**(OR)**

2. What is Scanning?

**7. Answer any two questions from the following.**

**2×5=10 M**

1. Explain the structure of the CV.
2. Write a letter to the Editor of a leading newspapers on the problems of Eve-teasing in your city.
3. Write an email to your friend telling him/her how much you liked the vacation photos online.



Room No: \_\_\_\_\_

Regd No: \_\_\_\_\_

**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I Degree (All Groups)  
Subject : English  
Title of Paper : General English  
Paper Code : CBENG201A  
W.E.F : 2018-19

Max Marks : 60  
Pass Mark : 24  
Duration : 3 Hrs  
Time : 9 am - 12 noon  
Date : 04.05.2024

**SECTION-A**

**I. Answer TWO of the following in about 75 words each:**

**2X5=10M**

- a) How does science affect the life of an average man?
- b) "Science direct the people in many ways". How?
- c) What do you understand with the practice of shaking hands?
- d) How does Gardiner refer to a greeting without a hand shake?

**II. Answer TWO of the following in about 75 words each:**

**2X5=10M**

- a) Give <sup>examples</sup> in which the poet shows his love towards autumn season.
- b) What does Keats mean by "mists and mellow fruitfulness" ?
- c) What does Kishwar Naheed tell about herself in the first stanza?
- d) How does the woman in the poster not want to be?

**III. Answer TWO of the following in about 75 words each:**

**2X5=10M**

- a) What did the sweeper boy complain about?
- b) How did old Ganpat astonish everyone?
- c) How was Subbiah trained by his father in the rice business?
- d) How did Subbaih meet his tragic end?

**IV. Answer TWO of the following in about 75 words each:**

**2X5=10M**

- a) Why did Lemov want to marry his neighbour , Natalia?
- b) What was the first cause of argument between Natalia and Lemov?
- c) Why did Chebukov call back Lemov even using insulting words?
- d) What was the cause of the second argument?

**[P.T.O]**



**SECTION-B****V. Read the following passage & answer the question that follow:****5X1=5M**

Mike and Morris lived in the same village while Morris owned the largest jewelry shop in the village Mike was a poor farmer. Both had large families with many sons, daughters-in-law, one fine day, Mike tried of not being able to feed his family, decided to leave the village and move to the city where he was certain to earn enough to feed everyone, along with his family, he left the village for the city. At night they stopped under a large tree, there was a stream running nearby where they could freshen up themselves.

- Mike had a \_\_\_\_\_ shop
- Both had many sons and \_\_\_\_\_
- Mike left the village and moved to the \_\_\_\_\_
- There was a \_\_\_\_\_ running nearby
- Mike was a \_\_\_\_\_

**VI. Fill in the blanks with the given words:**

Vindictive      Faultfinding      Skeptical      biased      Gullible

- Don't be \_\_\_\_\_ why must you believe everything you hear?
- You are always looking for something to criticize. Must you be so \_\_\_\_\_
- Since Raghu is your best friend, I would except him be \_\_\_\_\_ in your favour.
- I am not \_\_\_\_\_ I do not seek revenge
- My father was \_\_\_\_\_ when I said I had got a salary hike, he did not believe until I showed him my pay check.

**VII. Change the following sentences into passive voice:****5X1=5M**

- John Milton wrote paradise Lost
- She is making a cake
- They have done this project
- People speak Hindi all over India
- He had built a tower

**VIII. Change the following sentences into indirect speech:**

- He said, "how beautiful picture it is!"
- She said, "Don't disturb me when I am doing homework"
- Latha said, "when are you going to college?"
- He said, "Do you eat meat?"
- The girl asked him, "Can you sing with me?"

**IX. Rewrite as directed:**

- The Nile is the longest river [change into positive degree]
- Very few cities in India are as big as India [change it into superlative degree]
- Rahul is one of the tallest actors in the industry [change into positive degree]
- Ramesh is more intelligent than suresh [change it into positive degree]
- No other player is as good as Sachin [change into comparative]

**X. Write a Dialogue between the Bank Manager and a Customer****1X5=5M****XI. Write a Composition on the hints given below :****1X5=5M**

A postman in a village – interested in everyone – a good friend of all – a girl's marriage settles-her granduncle dies –the postman delays in delivering the letter- gives it after marriage – the girl's father is thankful to him



Room No: \_\_\_\_\_

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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)****II - SEMESTER END EXAMINATIONS**

Class : I Degree(All Groups)

Max Marks : 60

Subject : Telugu

Pass Mark : 24

Title of Paper : General Telugu

Duration : 3Hrs

Paper Code : R23TEL201

Time : 9am - 12noon

W.E.F : 2023-24

Date : 06-05-2024

అ-విభాగము

I. క్రింది 8 ప్రశ్నలలో ఏదైనా 5 ప్రశ్నలకు సమాధానం రాయాలి.

5X4=20మా

1. భాష యొక్క అవశ్యకతను తెలపండి.

2. వర్ణం గూర్చి రాయండి.

3. వెబ్ గురించి పేర్కొనండి.

4. మునిమాణిక్యం గారు ఉపాధ్యాయునిగా తన మొదటి అనుభవాన్ని వర్ణించిన విధానం తెల్పుము.

5. కొన్ని రకాల వెబ్ సైట్లను పేర్కొనండి.

6. మైక్రో బ్లాగింగ్ ప్రయోజనాలను వర్ణించుము .

7. అనువాదంలో భౌగోళిక సమస్యలను వివరించండి.

8. ఈ క్రింది అంశాన్ని తెలుగులోకి అనువదించి రాయండి.

God is the ocean of virtues. If you are burning with any vice, take a holy dip in that ocean  
 God is with in You Just like the fragrance in a flower images in a mirror Peace and  
 happiness are credited in your account. when God is remembered, but debited when he is  
 forgotten.

ఆ- విభాగము

II. ప్రతి భాగం నుండి ఒక్కొక్క ప్రశ్నకు జవాబు రాయండి.

5X8=40మా

9. భాషను నిర్వచించి, భాషోత్పత్తి వాదాల గురించి తెలియజేయండి.

(లేదా)

10. భాషా నిర్మాణంలో వర్ణమాల ప్రాధాన్యాన్ని పేర్కొనుము.

11. అనువాదాన్ని నిర్వచించి దాని స్వరూప స్వభావాలను తెలియ జేయండి. \*

(లేదా)

[P.T.O]



12. అనువాదంలో వ్యాకరణ, సాంస్కృతిక సమస్యలను గూర్చి రాయండి.

13. రేడియో భాష ఎలా ఉండాలి, దాని రచనకు ఉండాల్సిన లక్షణాలు పేర్కొనండి.

(లేదా)

14. యాంకరింగ్ నిర్వహణ తీరు తెన్నులను వర్ణించండి.

15. జంఘాల శాస్త్ర స్వభాష గురించి చెప్పిన అంశాలు పేర్కొనుము .

(లేదా)

16. మీ విద్యార్థి దశలో మీ యొక్క తెలుగు అధ్యాపకులను ఆటపట్టించిన విధము తెల్పుము.

17. వికీపీడియా లక్ష్యాలు, మార్గ దర్శకాలను తెలపండి .

(లేదా)

18. సోషల్ మీడియా వలన కలుగు లాభ నష్టాలు గూర్చి రాయండి.



Room No: \_\_\_\_\_

Regd No: \_\_\_\_\_

**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)****II - SEMESTER END EXAMINATIONS**

Class : I Degree (All Groups)  
 Subject : Telugu  
 Title of Paper : General Telugu  
 Paper Code : R20TEL201A  
 W.E.F : 2022-23

Max Marks : 60  
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 Duration : 3 Hrs  
 Time : 9am - 12noon  
 Date : 06-05-2024

పార్ట్ - ఎ

I ఈ క్రింది వానిలో "బదింటికి" సంక్షిప్త సమాధానాలు వ్రాయండి. 5X4=20 మార్కులు

1. ఆధునిక కవిత్వం.                      2. కథానిక                      3. బండారు ప్రసాద మూర్తి.
4. తెలుగు నవల                      5. తెలుగు నాటకం పరిచయం                      6. విమర్శ
7. మహాధర రామ్మోహనరావు                      8. తెలుగు నాటకం

పార్ట్ - బి

II ఈ క్రింది వానిలో అన్ని ప్రశ్నలకు సమాధానాలు వ్రాయుము 5X8=40 మార్కులు

9. కొండవీడులో దువ్వూరి రామిరెడ్డి గారి సందేశాన్ని వివరించండి?

(లేదా)

'తాతకో నూలుపోగు' ద్వారా బండారు ప్రసాదమూర్తి గారు నేతగాని స్థితిని ఎలా

వర్ణించారు?

10. తెలుగు కథానికను పరిచయం చేసే కథానిక లక్షణాలు తెలపండి ?

(లేదా)

స్వదం ఖరీదు ఇతి వృత్తాన్ని తెలపండి?

11. నవల ఆవిర్భావ వికాసాలను తెలపండి?

(లేదా)

'రథ చక్రాలు' నవలలోని ఇతివృత్తాన్ని విశ్లేషించండి?



12. తెలుగు నాటక పరిణామాన్ని గూర్చి వ్రాయండి?

(లేదా)

యక్ష గానం ద్వారా రచయిత ఇచ్చిన సందేశాన్ని తెలపండి?

13. విమర్శ స్వరూప స్వభావాలను వివరిస్తూ ఉత్తమ విమర్శకుని లక్షణాలను

రాయండి?

(లేదా)

విమర్శ లోని వివిధ భేదాలను వివరించండి?



Room No: \_\_\_\_\_

Regd No: 15

**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I Degree (All Groups)  
Subject : Telugu  
Title of Paper : General Telugu  
Paper Code : R20TEL201  
W.E.F : 2022-23

Max Marks : 75  
Pass Mark : 30  
Duration : 3 Hrs  
Time : 9am - 12 noon  
Date : 06-05-2024

**అ - విభాగము**

I. ఈ కిందివాటిలో ఐదింటికి సమాధానాలు రాయండి.

5×5=25

ప్రతి సమాధానానికి 5 మార్కులు.

- |                         |                      |
|-------------------------|----------------------|
| 1. విమర్శ ప్రయోజనం      | 5. తెలుగు నాటకం      |
| 2. అనిసెట్టి సుబ్బారావు | 6. కాళీపట్నం రామరావు |
| 3. ఉత్తమ విమర్శకుడు     | 7. ఆధునిక కవిత్వం    |
| 4. నవల - లక్షణాలు       | 8. తెలుగు కథానిక     |

**ఆ - విభాగము**

II. ఈ కింది అన్ని ప్రశ్నలకు సమాధానాలు రాయండి.

5×10=50

ప్రతి సమాధానానికి 10 మార్కులు.

9. ఆధునిక కవిత్వ ఆవిర్భావ వికాసాలను వివరించండి ?

(లేదా)

మాతృ సంగీతం ద్వారా అనిసెట్టి సుబ్బారావు చెప్పిన భావాలేవి ?

10. తెలుగు కథానికను పరిచయం చేసి కథానిక లక్షణాలను తెలపండి ?

(లేదా)

“భయం” కథ ద్వారా రచయిత సమాజానికిచ్చిన సందేశం ఏమిటి?

11. సాహిత్య ప్రక్రియగా నవల స్థానాన్ని వివరించండి ?

(లేదా)

“రథచక్రాలు” నవలలో ప్రధానమైన కథను తెల్పండి?

12. తెలుగు నాటక రంగం వికాసాన్ని వివరించండి ?

(లేదా)

“యక్షగానం” నాటికలోని ప్రధానమైన వస్తువును తెలియజేయండి?

13. తెలుగు సాహిత్య విమర్శ స్వరూప స్వభావాలను వివరించండి ?

(లేదా)

విమర్శలోని వివిధ భేదాలను వివరించండి ?



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I Degree (All Groups)

Max Marks : 75

Subject : Telugu

Pass Mark : 30

Title of Paper : General Telugu

Duration : 3 Hrs

Paper Code : CBTEL201B

Time : 9am - 12 noon

W.E.F : 2019-20

Date : 06-05-2024

**పార్ట్ - ఎ**

I. ఈ క్రింది పద్యాలలో ఒకదానికి ప్రతిపదార్థ తాత్పర్యములు వ్రాయుము.

1X8=8 మా

ఉదయ గ్రావము పానవట్ట, మభిషేకోద ప్రవాహంబు  
వార్ధి, దరీధ్వాంతము ధూప ధూమము, జ్వలద్దీప ప్రభారాజి  
కొముది, తారానివహంబులర్పిత సుమంబుల్ గా, దమోదూర  
సౌఖ్యదమై శీతగభస్తిబింబ శివలింగం బొప్పె బ్రాచీదిశన్

లేదా

శ్రీ రంజిల్ల బసిండి పెండ్లి చవికం జేరంగ నవ్వేళగ  
న్యాయ రత్నంబును దోడి తెచ్చిరి, జనానందంబుగా బాడుచున్  
బేరంటాం ధ్రువు మంత్రవర్ణపరనాప్తిన గర్గుడున్ దేవతా  
పారోహిత్య దురంధరుండు శుభముప్పన్ మ్రోలనేతెరగన్

II. ఈ క్రింది వానిలో అ భాగము నుండి రెండింటికి ఆ భాగము నుండి రెండింటికి సందర్భసహిత వ్యాఖ్యలు వ్రాయుము

4X3=12 మా

**అ - భాగము**

1. రాలు కపర్దికి బెట్ట జాతురె
2. రాత్రి శివరాత్రిగా జాగరము జేసి
3. ఒడలెల్ల గన్నులుగ జూచిరి
4. వదినె గారని యొక కొంత వావినెఱపె

**ఆ - భాగము**

1. సత్యవాక్యం బెవండుల్లంఘింపడో వాడెపో నరుడు
2. పట్టి చంపుడని యాజ్ఞాపించె నుద్దండతన్
3. విశ్వవిఖ్యాతిగంటివి వృక్షరాజ
4. నీవు నిజముగ ప్రత్యక్ష దైవతమవు

1. శివపూజలో పాము ఏనుగులు పూనిన వైరమెట్టిది ?

1X10=10 మా

లేదా

సుభద్రాపరిణయ వృత్తాంతమును వివరింపుము

[P.T.O]



2. జాషువా పిరదొసి లేఖ సారాంశమును వ్రాయండి

1X10=10 మా

లేదా

చెట్టు గొప్పతనాన్ని గెడ్డాపు సత్యం వర్ణించిన తీరు తెలుపండి

3. అమ్మకు ఆదివారం లేదా? కథాంశాన్ని వివరించండి

1X10=10 మా

లేదా

గాలివాన కథలోని రావుగారి పాత్రను వివరించండి

4. బతుకాట నామ సార్థక్యమును తెలుపండి

1X10=10 మా

లేదా

సిద్ధోజి పాత్రను వర్ణించండి

పార్ట్ - బి

5. ఈ క్రింది వానిలో ఏవేని మూడు ప్రశ్నలకు లఘురూప సమాధానములు వ్రాయుము.

3X5=15 మా

1. సుభద్రను అత్తవారింటికి సాగనంపిన తీరు.
2. సూర్యాస్తమయమును ధూర్జటి వర్ణించిన విధము.
3. అన్నపూర్ణమ్మ, జగన్నాథం దంపతుల గురించి తెలుపండి.
4. గజ్జెపూజను వివరించండి .
5. బతుకాట నవలలోని సాంఘిక పరిస్థితులు తెలుపండి.



Room No: \_\_\_\_\_

Regd No: 18

**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)****II - SEMESTER END EXAMINATIONS**

Class : I Degree (All Groups)

Max Marks : 75

Subject : Hindi

Pass Mark : 30

Title of Paper : General Hindi

Duration : 3 Hrs

Paper Code : R20HIN201

Time : 9am - 12 noon

W.E.F : 2022-23

Date : 06-05-2024

I. किन्हीं दो सन्दर्भ सहित वाक्यों को लिखिए।

2×10=20

1. मैं ने कहा .... मैंने कहा, कैद करने के बाद यह जुल्म? मनुष्यता से रहना सीखो, खुदा के बन्दों! जान से मार डालो, पर एक राजा की इज्जत रहने दो।
2. सत्व-गुण के समुद्र में जिनका अंतःकरण निमग्न हो गये वे ही महात्मा, साधु और वीर हैं।
3. भाषा-भेद की समस्या जरा कठिन है और उसका हल तभी निकलेगा जब हिंदी भाषी क्षेत्र में अहिन्दी भाषाओं तथा अहिन्दी भाषा क्षेत्रों में हिंदी भाषा का प्रचार हो जाए।
4. चंद, तुम प्राणहीन होकर मेरे पास आए हो। जानते हो, वीरों के प्राण का नाम है, तलवार!
5. ऐसी दैवी वीर रुपया, पैसा, माल, धन का दान नहीं दिया करते। जब वे दान देने की इच्छा करते हैं, तब अपने आप को हवन कर देते हैं।

II. किसी एक पाठ का सारांश विशेषताओं सहित लिखिए।

1×15=15

1. भारत एक है।
2. सच्ची वीरता।

III. किसी एक कहानी का सारांश विशेषताओं सहित लिखिए।

1×15=15

1. भूख हड़ताल।
2. मैं हार गई।

IV. A) किन्हीं पाँच शब्दों का संधिविच्छेद कीजिए।

5×1=5

- |               |              |            |            |
|---------------|--------------|------------|------------|
| 1. सूक्ति     | 2. चन्द्रोदय | 3. अत्यल्प | 4. पवन     |
| 5. पित्राज्ञा | 6. प्रत्येक  | 7. यद्यपि  | 8. कवीश्वर |

B) किन्हीं पाँच शब्दों के समास विग्रह के नाम लिखिए।

5×1=5

- |              |                  |            |                |
|--------------|------------------|------------|----------------|
| 1. प्रतिपल   | 2. स्वर्गप्राप्त | 3. चितचोर  | 4. तुलसीकृत    |
| 5. युद्धभूनि | 6. धनहीन         | 7. राजमाता | 8. राम-लक्ष्मण |

C) किन्हीं पाँच कार्यालयीन शब्दों को हिंदी से अंग्रेजी में अनुवाद कीजिए। 5×1=5

- |                |                 |               |              |
|----------------|-----------------|---------------|--------------|
| 1. स्पष्टीकरण  | 2. घोषणापत्र    | 3. विधिवत     | 4. समयोपरि   |
| 5. कार्यान्वयन | 6. आहरण अधिकारी | 7. कोषाध्यक्ष | 8. प्राधिकृत |



V. नगर पालिका के अधिकारी के नाम एक शिकायती पत्र लिखिए।  
अथवा

10×1=10

आचार्य की नौकरी के लिए किसी कॉलेज के प्रिन्सिपल के नाम एक आवेदन पत्र लिखिए।



Room No: \_\_\_\_\_

Regd No: \_\_\_\_\_

**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I Degree (All Groups)

Max Marks : 60

Subject : Hindi

Pass Mark : 24

Title of Paper : General Hindi

Duration : 3 Hrs

Paper Code : R23HIN201

Time : 9 am - 12 noon

W.E.F : 2023-24

Date : 06-05-2024

**SECTION-A**

1. निम्न लिखित प्रश्नों में से किन्हीं पांच प्रश्नों का उत्तर दीजिये।

5 X 4 = 20 M

1. दोहे का पूर्ति कीजिए।

जब मैं था तब \_\_\_\_\_ न समाहि।

2. किन्हीं एक कविता का जीवन परिचय दीजिए।

(a) भारतेन्दु हरिश्चन्द्र (b) रहीम

3. भिक्षुक कविता की विशेषतायें लिखिए।

4. परिपत्र की परिभाषा लिखिए।

5. अनुवाद किसे कहते हैं।

6. व्याख्या कीजिए

तुलसी संत सुअम्ब - तरु पुली फलाही पर हेत।

इतते ये पाहन हनत, उतते वे फल देत॥

7. व्याख्या कीजिए

खीर सर से काटिए, मलियत नमक बनाय।

रहिमन करुए मुखन को, चहियत इहै सजाय॥

8. व्याख्या कीजिए

उन्नत पूरी है तबही जब घर उन्नति होये।

निज शरीर उन्नति किए, रहत मूढ़ सन होय॥

निज भाषा उन्नति बिना कबहुँ न हो है सोय

लाख उपाय अनेक यो भले करो किन कोय॥

[P.T.O.]



## SECTION-B

(Essay Questions)

5 X 8 = 40M

9. किसी एक कविता का सारांश लिखिए।  
 1. ~~शिवशुक्ल~~ 2. मादा भ्रूण
10. किसी एक निबंध पर प्रकाश डालिये  
 1. विज्ञान - वरदान या अभिशाप  
 2. विद्यार्थी और अनुशासन
11. किसी एक अंश पर टिप्पणी लिखिए  
 1. ज्ञापना की परिभाषा देते हुए नमूने का ज्ञापन लिखिए।  
 2. आधि सूचना का प्रारूप तैयार कीजिए
12. हिंदी में अनुवाद कीजिए  
 1. Peacock is beautiful bird  
 2. Don't tell lies  
 3. Then pen is on the table  
 4. Service to man is service to god

(अथवा)

अंग्रेजी में अनुवाद कीजिए

1. मेरा नाम मोहन है  
 2. वह जा रहा है  
 3. राम ने रावण को मारा  
 4. सम्मान दीजिए सम्मान लीजिये।

13. निम्न लिखित अवतरण का एक तिहाई में संभे कीजिए।

भारत वर्ष अत्यंत प्राचीनकाल में एक भौगोलिक इक्की रहा है। यद्यपि इस देश के विभिन्न भागों में अलग अलग शासकों ने शासन किया और छोटे - छोटे राज्यों में यह बाँट रहा, किंतु इतिहास हमें बताता है की प्रत्येक युग में भारत एक सामान्य संस्कृति का देश रहा है। यहाँ के निवासी एक समय भावना से बांधे रहे हैं। यही कारण है की भारतीय संस्कृति इतनी भावना से भान्धे रहे हैं। यही कारण है की भारतीय संस्कृति इतनी पुष्ट है जो विदेशियों के निरंतर आक्रमणों और अनेक शासन के तमनाम प्रयत्नों के बावजूद नस्ट रही हो पायी। टुकड़ों में बाँट हुआ होम पर भी यह देश परस्पर बाँधकर एक इकाई बना रहा, यह साधारण बात नहीं है।



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**  
**II - SEMESTER END EXAMINATIONS**

Class : I B.Sc Honours (All)

Max Marks : 50

Subject : Commerce

Pass Mark : 20

Title of Paper : Marketing Skills

Duration : 2 Hrs

Paper Code : R23SDPA202

Time : 9 am - 11 am

W.E.F : 2023-24

Date : 02.05.2024

**SECTION-A**

**I. Answer any FOUR of the following Questions**

**4X5=20M**

1. Define Marketing Research?
2. What is Market Segmentation?
3. What are the factors influencing consumer buying behaviour?
4. Define Product?
5. What is Branding?
6. Social Media Marketing.
- 7 Negotiation
8. Communication Skills of a Salesperson.

**SECTION-B**

**II. Answer any THREE of the following Questions**

**3X10=30M**

9. What are the major components of external environment of marketing?
10. What is the core marketing concepts in Marketing?
11. What are the various stages of new product development? Explain each of them.
12. Explain in detail about the PLC stages.
13. Define Selling, Explain the Nature and role of Selling.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I B.Com, B.Sc, BBA, B.Voc  
Subject : Foundation Course  
Title of Paper : Indian Culture And Science  
Paper Code : R20LSC202  
W.E.F : 2020-21

Max Marks : 50  
Pass Mark : 20  
Duration : 2 Hrs  
Time : 9am - 11am  
Date : 01.05.2024

**SECTION-A**

**I. Answer any FOUR of the following Questions**

**4X5=20M**

1. Buddhism.
2. Sufi Movement.
3. Mahatma Gandhi.
4. Swami Vivekananda.
5. Dr. B.R.Ambedkar.
6. Online education.
7. Space Technology.
8. Importance of Seasonal Festivals.

**SECTION-B**

**II. Answer any THREE of the following Questions**

**3X10=30M**

9. Write about co-existence of various religions since ancient times.
10. Write an essay on Bhakthi Movement in India.
11. Explain the reforms of Kandukuri Veeresalingam.
12. Explain the socio-Religious reforms of Raja Ram Mohan Roy.
13. Discuss the development of Industry in India.
14. Describe the development of Medicine in Independent India.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**  
**II SEMESTER END EXAMINATIONS**

Class : I Degree (All Groups)  
Subject : Foundation Course  
Title of Paper: Environmental Studies  
Paper Code : CBES201B  
W.E.F : 2019-20

Max Marks : 50  
Pass Mark : 20  
Duration : 2 Hrs  
Paper Time : 9am - 11 am  
Date : 02.05.24

**SECTION - A**

**I. Answer any FOUR Of the following questions.**

**4X5=20M**

1. Carbon Trading.
2. Ecological Pyramids.
3. Ecosystem.
4. Soil erosion.
5. Biosphere.
6. Industrial Waste.
7. Swacha Bharat.
8. Sustainable Development.

**SECTION - B**

**II. Answer any THREE Of the following questions.**

**3X10=30M**

9. Explain about Food Chain and Food Web with examples.

**(OR)**

10. What is Climate Change? And explain effect of climate change.

11. How energy flows within the Ecosystem?

**(OR)**

12. Explain the uses and over exploitation of Forest Resources.

13. Explain about causes effects, and control measures of Air pollution.

**(OR)**

14. Enumerate the acts in force relating to the protection of environment in the country.

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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.Com , BBA , BCA , BA , B.Voc , B.Sc  
Subject : Computer Science  
Title of Paper : Digital Literacy  
Paper Code : R23SDP201  
W.E.F : 2023-24

Max Marks : 50  
Pass Mark : 20  
Duration : 2 Hrs  
Time : 9am - 11am  
Date : 01.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. How you will edit a document?
2. What are the components of MS-Word?
3. How to create a folder / Sub folder on hard disk and desktop?
4. What are parts of Excel window?
5. What is meant by Reference? Explain about types of Reference?
6. Write about Working with graphics in Power Point?
7. What is part of Parts of Power point window?
8. Explain data sorting in Excel.

**SECTION-B**

**II. Answer ALL the following Questions**

**3X10=30M**

9. Explain job search through employment portals?

**(OR)**

10. Explain about Mail Merge and its uses.

11. Explain different types of charts?

**(OR)**

12. Explain different types of functions in Excel?

13. Explain presentation management?

**(OR)**

14. Explain Auto Content Wizard in Power Point?



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I B.Com, BBA, BCA, B.Voc & B.A Honours

Max Marks : 50

Subject : English

Pass Mark : 20

Title of Paper : Business Writing

Duration : 2Hrs

Paper Code : R23SDPB202

Time : 9am - 11am

W.E.F : 2023-24

Date : 02.05.2024

**SECTION-A**

**I. Answer any FOUR of the following Questions :**

**4X5=20M**

1. What is business communication?
2. What is e-mail etiquette?
3. What are announcements?
4. What are request memos?
5. What is Formal report writing?
6. What is meant by digital business writing?

**SECTION-B**

**II. Answer any THREE of the following Questions:**

**3X10=30M**

7. What are the eight essential elements of communication?
8. Explain the do's and don'ts of e-mails.
9. What are the techniques followed while responding to inquiries and complaints effectively?
10. Write about the format and structure of Memos.
11. What is the role of social media and online communication in business writing?



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)****II - SEMESTER END EXAMINATIONS**

Class : I B.Com(General,TP,Computers)

Max Marks : 60

Subject : Commerce

Pass Mark : 24

Title of Paper : Financial Accounting

Duration : 3Hrs

Paper Code : R23COM201

Time : 9am - 12noon

W.E.F : 2023-24

Date : 07-05-2024

**SECTION-A****I. Answer ALL the following Questions****5X12=60M****1. What is double entry system. Explain its advantages.****(OR)****2. Jaya is a sole proprietor having a provisions store. Following are the transactions during the month of January, 2018. Journalise them.**

January

Rs.

1 Commenced business with cash	80,000
2 Deposited cash with bank	40,000
3 Purchased goods by paying cash	5,000
4 Purchased goods from Lipton & Co. on credit	10,000
5 Sold goods to Joy and received cash	11,000
6 Paid salaries by cash	5,000
7 Paid Lipton & Co. by cheque for the purchases made on 4th Jan.	
8 Bought furniture by cash	4,000
9 Paid electricity charges by cash	1,000
10 Bank paid insurance premium on furniture as per standing instructions	300

**3. Distinguish between capital expenditure and revenue expenditure.****(OR)****4. The following balances were extracted from the books of Thomas as on 31st March, 2018**

Particulars	Amount	Particulars	Amount
Purchases	75000	Capital	60000
Returns inward	2000	Creditors	30000
Opening stock	10000	Sales	120000
Freight	4000	Returns outwards	1000
Wages	2000		
Investment	10000		
Bank charges	1000		
Land	30000		
Machinery	30000		
Building	25000		
Cash in hand	4000		
Cash at bank	18000		

Additional information:

i. Closing stock Rs. 9,000

**[P.T.O]**



- ii. Provide depreciation @ 10% on machinery
- iii. Interest accrued on investment Rs. 2,000

Prepare trading account, profit and loss account and balance sheet.

5. Define depreciation. Explain its need and objectives.

(OR)

6. On 1st January 2020 a machine was purchased for Rs. 30000. On 1st April 2021 another machine was purchased and installed for Rs. 20000. On 31st December half of the first machine was sold for Rs. 3,800. Depreciation was charged at 10% per annum on diminishing balance method. Prepare machinery account for the year ended 31st December 2023.

7. What is consignment. Explain its features.

(OR)

8. The Swastik Oil Mills, Mumbai consigned 5,000 kg. of castor oil to Dass of Kolkata on 1st January, 2012. The cost of the oil was Rs 460 per kg. The Swastik Oil Mills paid Rs 2,00,000 for packing, freight and insurance. During transit 125 kg. were accidentally destroyed for which the insurers paid, directly to the consignors, Rs 45,000 in full settlement of the claim.

Dass took delivery of the consignment on the 10th January. On 31st March, 2012 Dass reported that 3,750 kg. were sold at Rs 600, the expenses being on godown rent Rs 30,000, on advertisement Rs 40,000 and on salesmen's salaries Rs 64,000. Dass is entitled to a commission of 3 per cent plus  $1\frac{1}{2}$  per cent del credere. A party which had bought 500 kg. was able to pay only 80% of the amount due from it.

Dass reported a loss of 50 kg, due to leakage. Assuming that Dass paid the amount due by bank draft, show the accounts in the books of both the parties. Books of accounts are closed by the parties on 31st March.

9. Define joint venture . Explain its features and advantages.

(OR)

10. Ali of Lahore and Bilal of Karachi entered into joint venture for the sale of a consignment of goods at March 2018, profit and losses to be shared equally. Ali paid Rs. 10,000 for goods purchases and consigned to Bilal for Sale. He paid Rs. 400 for freight, Rs. 350 for brokerage and Rs. 100 for sundry expenses. Bilal received these goods and paid Rs. 600 for octroi, Rs. 200 for warehouse and Rs. 90 for insurance. He sold the whole consignment for Rs. 16,000. Pass Journal entries in the books of Bilal.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.Com(GEN,TP,COMP,LOG)

Max Marks : 75

Subject : Commerce

Pass Mark : 30

Title of Paper : Financial Accounting

Duration : 3 Hrs

Paper Code : R20COM201

Time : 9am - 12noon

W.E.F : 2023-24

Date : 07-05-2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X5=25M**

1. What are the Objectives of Depreciation ?
2. Explain the meaning of Reserves and provisions
3. Write about repairs and renewals
4. Explain different methods of Depreciation
5. What is Del credere commission
6. What is the accounting treatment for renewal of a bill
7. Write about account sales
8. Explain the features of Joint Venture

**SECTION-B**

**II. Answer ALL the following Questions**

**5X10=50M**

9. Explain the causes for providing depreciation

**(OR)**

10. Manohar purchased a machinery for his business at Rs. 1,00,000 on 1-1-2015.  
Assuming annual depreciation is 10%, show Machinery Account for 5 years under  
Fixed Instalment Method

11. Distinguish between Provision and Reserve

**(OR)**

12. from the following figures, you are required to show

- (a) Provision for Doubtful Debts Account
- (b) Bad Debts Account
- (c) Profit and loss Account

Rs.

Provision for doubtful debts	1-4-2003	1000
Provision for doubtful debts	31-3-2004	2000
Bad debts written off in	2003-2004	1200

**[P.T.O]**



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13. Explain the Features of a Bills of Exchange.

(OR)

14. On 1<sup>st</sup> January, 2015 'A' Sold goods to 'B' for RS.12,000 and drew a bill on 'B' for 4 months 'B' accepted the bill. Finally the bill honored on the due date.

15. Explain the difference between consignment and sale

(OR)

16. Anand sends out a consignment of the value of Rs. 5000 to Balan drawing on the latter for Rs. 4000 as an advance against the same. Anand also pays Rs.50 for freight. Balan clears the goods by paying Rs.250 for port duty etc. Balan sells the whole lot for Rs.8500, his remuneration being 5% on gross sales. Balan sends out account sales and draft to Anand for the balance. Prepare Consignment Account and Balan Account.

17. Write the differences between Consignment and joint venture.

(OR)

18. Das and Babji enter into a joint venture sharing Profits and losses in the ratio of 3:2 respectively. Das is to purchase textiles and Babji to sell. Das Purchases textiles Worth Rs.100000 and pays Rs.10000 as expenses. Babji sold the entire stock of textiles for Rs.160000. In doing so he had to pay Rs.20000 for various expenses. Give ledger accounts in the books of Das.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.Com (Gen)  
Subject : Commerce  
Title of Paper : Business Management  
Paper Code : R23COM202  
W.E.F : 2023-24

Max Marks : 60  
Pass Mark : 24  
Duration : 3 Hrs  
Time : 9am - 12noon  
Date : 08.05.2024

**SECTION-A**

**I. Answer ALL the following Questions**

**5X12=60M**

**1. Define Management? Explain its nature and Significance?**

**(OR)**

**2. Explain the Functions of Management?**

**3. Explain the Various Steps in Planning Process?**

**(OR)**

**4. What is Decisions Making? Explain the Process?**

**5. What is delegation of authority? Explain the Process of Delegation?**

**(OR)**

**6. Explain differences between Centralization and Decentralization?**

**7. Explain Theories of Motivation?**

**(OR)**

**8. Define Leadership? Explain its Styles?**

**9. Explain the Nature and Importance of Controlling?**

**(OR)**

**10. Discuss the Merits and Demerits of Controlling?**



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.COM(GEN)  
Subject : Computer Science  
Title of Paper : Web Designing  
Paper Code : R23MCS203  
W.E.F : 2023-24

Max Marks : 60  
Pass Mark : 24  
Duration : 3 Hrs  
Time : 9am - 12noon  
Date : 09.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Explain about WWW.
2. Explain about HTML Elements.
3. Explain about the multimedia objects.
4. Explain marquee and font tags with example.
5. Write about text area tag.
6. Explain Z-index.
7. Explain pseudo class.
8. Write about i frame.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. Explain different types of web browsers.

**(OR)**

10. Explain the different formatting tags with examples.

11. What is List? Explain different types of lists.

**(OR)**

12. Explain about the Hyperlinks.

13. Explain about the HTML form input elements.

**(OR)**

14. How to working with frames? Explain.

15. What is CSS? Explain different types of CSS.

**(OR)**

16. Explain different types of selectors with example.

17. Explain about CSS Advanced techniques.

**(OR)**

18. Explain about the font, margine, background properties.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.Com(TP)

Max Marks : 60

Subject : Commerce

Pass Mark : 24

Title of Paper : Income Tax-I

Duration : 3Hrs

Paper Code : R23COMT202

Time : 9am - 12noon

W.E.F : 2023-24

Date : 08.05.2024

**SECTION-A**

**I. Answer ALL the following Questions**

**5X12=60M**

1. What is tax and explain its objectives.

**(OR)**

2. Write about assessment year & previous year

3. Write about list of exempted incomes from tax u/s 10.

**(OR)**

4. Explain classifications of incomes.

5. Write about incidence of tax.

**(OR)**

6. The following are the particulars of Income of Mr Pranav for the previous year 2020-2021. Compute his gross total income on different residential status.

Particulars

Rs.

Rent from a property in Delhi received in USA	80,000
Income from a business in USA controlled from Delhi	1,20,000
Income from a business in Bangalore controlled from USA	1,80,000
Rent from a property in USA received there but subsequently remitted to India	60,000
Interest from deposits with an Indian company received in USA	20,000
Profit for the year previous years of a business in USA remitted to India during this year (not taxed earlier)	75,000
Gifts received from his parents	45,000

7. What is allowance and write about various types of allowances

**(OR)**

8. Mr. Karthik is employed in Bangalore, His particulars of income for the P.Y.2020-21 are basic salary 8,000 per month, DA 2,000 per month (40% enter into all retirement benefits).

**[P.T.O]**



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Bonus 4,000 p.a. Commission 8,500 p.a., E.A, 500 per month, Fair Rental Value of Rent Free house provided by the employer 40,000 p.a. Value of furniture provided 20,000. Its WDV as on 01-04-2020 5,000. Compute income from salary of Mr. Prakash for the A.Y. 2023-24

9. Explain different types of rents in house property.

**(OR)**

10. Following are the particulars of house properties of Mr. Pavan for the previous year 2008-09:

Particulars	House-A	House-B
Construction started on	31.3.1992	10.2.1988
Constructed completed on	31.3.1993	1.6.1992
Annual rental value	30,000	12,000
Municipal valuation	25,000	12,000
Municipal tax	2,500	1,200
Annual repairing expenses	2,000	2,000
Interest on money borrowed for Renovation of the building	1,200	-
Insurance premium	200	175
Ground rent	150	100
House property was vacant for (months)	3	-
Rent collection charges	1,000	600

Both the above houses were let out for residential purposes insurance premium of House-A and ground rent of House-B are still outstanding. Repair expenses of House-A and municipal tax of House-B was paid by the tenants. Compute the income from house party.



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Regd No: 35**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)****II - SEMESTER END EXAMINATIONS**

Class : I B.Com (TP)

Max Marks : 75

Subject : Commerce

Pass Mark : 30

Title of Paper : Income Tax

Duration : 3 Hrs

Paper Code : R20COMT203

Time : 9 am - 12 noon

W.E.F : 2020-21

Date : 09.05.2024

**SECTION-A****I. Answer any FIVE of the following Questions****5X5=25M**

1. Meaning of Business and Profession
2. Types of capital assets
3. Indexed cost of acquisition
4. Specific incomes
5. Clubbing of incomes
6. Set off and carryforward of losses
7. Deductions u/s 80C
8. Tax rates applicable to an individual for the A.Y 2023-24

**SECTION-B****II. Answer ALL the following Questions****5X10=50M**

9. Define Depreciation. Explain the rules regarding claiming of depreciation

**(OR)**

10. The following is the P&L A/c of Mr.Ranjith for the year ending 31<sup>st</sup> March 2023

Particulars	₹	Particulars	₹
To Salaries	1,65,000	By Gross Profit	2,50,000
To office expenses	18,000	By Bad debts recovered	10,000
To Depreciation	14,000	By Dividend	3,000
To GST	9,000	By Commission	10,000
To Legal expenses	8,000	By Rent of house property	9,000
To Income Tax	7,000	By Brokerage	10,000
To Patents purchased (1/8 <sup>th</sup> )	12,000	By Sundry Receipts	5,000
To Donation	2,000	By share of income from HUF	3,000
To provision for bad debts	3,000		
To General expenses	12,000		
To Net Profit	44,000		
	<b>3,00,000</b>		<b>3,00,000</b>

11. Explain the exemptions u/s 54

**(OR)**

12. Mr. Ramanand inherited 20 acres of agricultural land in urban limits from his father during 1979. The FMV on 1-4-2001 was ₹38,000 per acre. He made improvements during the P.Y 2005-06 at cost of ₹3,000 per acre(CII- 117)

On 17-8-2022 he sold 10 acres at ₹12,50,000 per acre and expenditure on transfer was 4% . He made the following appropriations.

**[P.T.O]**



- 36
- Purchased another 10 acres of agricultural land at ₹1,90,000 per acre.
  - Purchased residential house for ₹24,00,000
  - Paid ₹9,00,000 for a bank loan taken for private use
  - Compute taxable capital gain
  - (CII 2001-02=100, 2005-06=117, 2022-23=331)

13. Explain the incomes which are taxable under the Income from other sources

(OR)

14. From the following incomes of Mr. Lingaraj (resident) for the year ended 31-3-23, compute income from other sources.

i) Director's fes	₹10,000
ii) Interest on bank deposits	₹3,000
iii) Income from undisclosed sources	₹12,000
iv) winning from lotteries (Net)	₹28,000
v) Royalty on book written	₹8,000
vi) Income from lectures delivered	₹5,000
vii) Interest on loan given to a relative	₹7,000
viii) Interest on tax free debentures of a company (Net)	₹3,600
ix) Dividend from cooperative society	₹8,000
x) Interest on SBI SB A/c	₹500
xi) Interest on central government securities	₹2,200

He paid ₹1,000 for typing the manual script of the book

15. What are the provisions of Law regarding to clubbing of incomes or aggregation of income?

(OR)

16. What are the provisions of Income tax Act, 1961 regarding carryforward and set off losses

17. Explain the deductions u/s 80c 80u

(OR)

18. Sri Ram has developed an improved model of a car and got it patented on 31-3-2023 under the patent Act, 1970. He allowed AB LTD, to use his patent rights and licenses has been granted to it under the patent Act, 1970. He has received a royalty of ₹12,00,000 during the P.Y 2022-23 However the royalty in accordance with the terms and conditions of the license settled by the controllers under the said act is ₹5,00,000. He has incurred ₹3,00,000 expenses in developing his invention and getting it patented.

Compute his total income for the A.Y. 2023-24, if he is a resident in India and his business income is ₹5,00,000



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.Com (Gen, TP, Comp, Log) BBA & BCA  
Subject : Commerce  
Title of Paper : Advertising  
Paper Code : R20SDC203B  
W.E.F : 2020-21

Max Marks : 50  
Pass Mark : 20  
Duration : 2 Hrs  
Time : 9am – 11am  
Date : 03.05.2024

**SECTION-A**

**I. Answer any FOUR of the following Questions**

**4X5=20M**

1. Types of Advertising.
2. Explain advantages and disadvantages of advertising.
3. Role of Advertising and their responsibilities.
4. Ethical issues in Advertising.
5. Explain about Business promotion.
6. Role of ASCI.
7. Feed back on impact of Advertisement.
8. Creative advertising Messages.

**SECTION-B**

**II. Answer any THREE of the following Questions**

**3X10=30M**

9. Explain the functions of advertising.
10. What are the factors determining opportunities of a product /service Idea.
11. Explain the role of AAAL.
12. Explain about the basic characteristics of a typical advertisement.
13. Explain in briefly about reaching target groups for Advertising.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.Com (Gen , TP, Log , Comp)

Max Marks : 75

Subject : Commerce

Pass Mark : 30

Title of Paper : Business Economics

Duration : 3 Hrs

Paper Code : R20COM202

Time : 9am - 12 noon

W.E.F : 2020-21

Date : 08.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X5=25M**

1. Macro Economics
2. Break even point
3. Concept of Demand
4. Price Elasticity of Demand
5. Total outlay Method
6. Marginal cost
7. Demand functions
8. Explain the limitations of micro economics.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X10=50M**

9. What is Business Economics? Explain Nature and Scope of Business Economics.

**(OR)**

10. What is Micro economics? Explain the scope of Micro economics.

11. What is elasticity of demand? Explain how it is measured.

**(OR)**

12. Explain Price elasticity of demand and methods measurements of price elasticity of demand.

13. Explain production cost and revenue analysis. Explain the concept of production function.

**(OR)**

14. What is law of return to scale? Explain the different types of return to scale.

15. What is perfect competition? Explain its characteristics.

**(OR)**

16. Explain the concept of kinked Demand curve.

17. What is National Income? Explain the basic concepts of national income.

**(OR)**

18. What is National Income? Explain the measurements of national income.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I B.Com (Gen, TP, Comp, Log) BBA & BCA

Max Marks : 50

Subject : Commerce

Pass Mark : 20

Title of Paper : Agriculture Marketing

Duration : 2 Hrs

Paper Code : R20SDC202B

Time : 9am - 11am

W.E.F : 2022-23

Date : 02.05.2024

**SECTION-A**

**I. Answer any FOUR of the following Questions**

**4X5=20M**

1. Money lenders.
2. Movement of products from <sup>farm</sup> to consumers.
3. Functioning of market yards.
4. Market information.
5. Selection of target market.
6. Assembling and grading.
7. Government Apps for agricultural marketing.
8. Any Top 5 Agricultural products grown in India.

**SECTION-B**

**II. Answer any THREE of the following Questions**

**3X10=30M**

9. Explain various types of agricultural markets.
10. Explain the role of marketing in Agriculture.
11. Explain in detail about Rythu Borasa Kendras (RBK).
12. Write the Government Policies and regulations in regarding to Agricultural Markets.
13. What are the Government programmes in support to agricultural market in India.



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Regd No: 40**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)****II – SEMESTER END EXAMINATIONS**

Class : I B.Com (Gen, TP, Comp & Log)  
 Subject : Commerce  
 Title of Paper : Financial Accounting  
 Paper Code : R20COM201A  
 W.E.F : 2022-23

Max Marks : 60  
 Pass Mark : 24  
 Duration : 3 Hrs  
 Time : 9 am - 12 noon  
 Date : 07.05.2024

**SECTION-A****I. Answer any FIVE of the following Questions****5X4=20M**

1. What are the causes for Depreciation?
2. Explain about Provisions for Repairs and Renewals
3. What is Joint Venture?
4. Explain the features of Consignment.
5. What is Delecredere Commission?
6. Explain the features of Bills of Exchange.
7. Write about Account Sale.
8. Explain about types of Reserves.

**SECTION-B****II. Answer ALL the following Questions****5X8=40M**

9. Explain the methods of Depreciation.

**(OR)**

10. Ram & Co acquired machine for Rs.50,000 on 1<sup>st</sup> April 2015 and Spent Rs.10,000 for erection. The life of the machine was estimated at 10 years. The scrap value of the machine is Rs.2,000. Assuming that the accounting year ends with Dec.31<sup>st</sup> every year. Show the Machine Account for 4 years.

11. Distinguish between Provisions and Reserves

**(OR)**

12. The following particulars are extracted from the records of Sunil & Co. Ltd. for the year ending 31 - 12 - 17 to 31 - 12 - 19:

	31 - 12 - 17	31 - 12 - 18	31 - 12 - 19
Sundry debtors	Rs. 1,00,000	3,00,000	2,00,000
Bad debts	Rs. ---	8,000	3,000
% of doubtful debts provision	5%	5%	5%

Prepare the Bad debts account and Doubtful debts provision account.

13. Explain the differences between Bills of Exchange and Promisary Note.

**(OR)**

14. Prakash draws a bill for Rs.2,000 on Viswam for four months. Show what entries should be passed in the books of Prakash under each of the following circumstances.

- (i) If Prakash retained the bill till due date and then realized it on maturity.
- (ii) If he discounted the bill with his bankers for Rs. 1,950
- (iii) If he endorsed it to his creditor Solanki in settlement of his debt.
- (iv) If he sent it to his bankers for collection.

**[P.T.O]**



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15. Explain the differences between Consignment and Sale.

**(OR)**

16. Raghu & co. of Delhi consigned 200 radios to Balu of Calcutta. The cost of each radio was Rs.400. Radio house paid Rs.5,000 for freight and insurance. Balu accepted a 3 months bill drawn upon by Raghu & co, for Rs.50,000. Balu paid Rs.2,200 as rent and Rs.1,300 for advertisement. Balu sold 180 Radios at Rs.500 each. Balu were entitled to a commission of 5% on sales.

Prepare necessary ledger accounts in the books of Raghu & co.,.

17. Write the differences between Consignment and Joint Venture.

**(OR)**

18. Ramesh and Suresh entered into a Joint Venture sharing profits and losses in the ratio 3:2 respectively. Ramesh supplied goods for Rs.7,500 and spent Rs.500 for expenses. Suresh supplied goods for 6,000 and spent Rs.400 for expenses. Suresh sells goods on behalf of joint venture Rs.18,000 and charged 5% commission on sales. Suresh settles his account by bank draft. Show Joint venture account in the books of Ramesh.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**  
**II - SEMESTER END EXAMINATIONS**

Class : I B.Com(Gen, TP, Comp & Log)  
 Subject : Commerce  
 Title of Paper : Financial Accounting - II  
 Paper Code : CBFA201A  
 W.E.F : 2022-23

Max Marks : 75  
 Pass Mark : 30  
 Duration : 3Hrs  
 Time : 9am - 12noon  
 Date : 07.05.2024

**SECTION-A****5X5=25M****I. Answer any FIVE of the following Questions**

1. What is manufacturing account ?
2. Features of final account.
3. Explain the account sales and Proforma invoice.
4. What is difference between consignment and sale?
5. What is difference between consignment and joint venture?
6. Explain the causes of Depreciation.
7. Explain the Diminishing method.
8. Explain about provisions and reserves

**SECTION-B****5X10=50M****II. Answer ALL the following Questions**

9. From the following Trial Balance of krishang, prepare Trading and Profit & Loss Account for the year ending 31<sup>st</sup> March 2023 and Balance sheet as on that date.

Particulars	Debit	Credit
Buildings	50,000	
Capital		96,000
Purchases & sales	15,000	40,450
Opening stock	8,000	
Debtors & Creditors	10,000	5,000
Drawings	3,500	
Sales Returns & Purchase Returns	1,000	500
Freight	3,250	
Office salaries	10,000	
Wages	1,200	
Postage & Telegrams	1,000	
Machinery	20,000	
Bills Receivable & Bills Payable	9,000	3,000
Advertisement	4,000	
Cash in Hand	5,000	
Loose Tools	4,000	
	1,44,950	1,44,950

**Adjustments:**

1. closing stock was valued at Rs 10,000
2. Depreciate Building by 5% and Loose Tools are revalued at Rs.3,500
3. interest on capital is at 5% and on Drawings is at 10%.

**(OR)****[P.T.O]**



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10. The following Trial Balance is extracted from the books of sri on march 31 ,2023.

particulars	Debit	Credit
Salaries	35,000	
General Expenses	7,000	
Taxes and Insurance	8,000	
Sundry Debtors	25,000	
Stock	46,000	
Purchases	60,000	
Wages	4,000	
Sales		1,50,000
Bank overdraft		17,000
Commission		3,500
Advertising	9,000	
Interest	2,000	
Furniture	60,000	
Building	60,000	
Motor Vehicles	80,000	
Capital		1,25,000
Bad Debts	2,000	
Provision for Doubtful Debts		2,500
Loan		60,000
Sundry Creditors		40,000
	3,98,000	3,98,000

**Adjustments:**

- 1.stock on hand on march 31,2022 was estimate to be RS.40,000
  - 2.Depreciate: Building @ 6% and motor vehicles @ 10%
  - 3.Rs.1,500 is due for interest on loan
  4. write off further Rs.1000 as Bad Debts and provision for Bad debts is to be made equal to 6% on sundry Debtors.
- You are required to prepare Trading and Profit & Loss Account ,Balance sheet as on that date.

11. pradeep of Chennai consigned 300 bales of cloth at Rs.20,000 per bale to pramod of Hyderabad paying freight Rs.40,000 and other expenses Rs.20,000.pramod sold 250 bales at Rs.25,000 per bale on credit and 25 bales at Rs.22,000 per bale for cash. Pramod spent for freight and Octroi Rs.30,000 and other expenses Rs 10,000.pramod remitted the amount due to pradeep after deducting his normal commission at 5%, 2.5% overriding commission and 0.5% Del-credere commission .pramod found that one customer to whom credit of 40 days was allowed paid only Rs.48,000 out of the total amount due from him Rs.50,000 in full settlement of the account.other customers paid the amount on due date. prepare ledger accounts in the books of both the parties.

(OR)

12. Mr. X consigned 1,000 kgs vegetables costing Rs.15,000 to Mr.Y. Expenses incurred were Rs.4,000. Loss due to normal deterioration was 10 kgs and 810 were sold by Mr.Y.at Rs.30 per kg .Ascertain the cost of the Unsold stock at the end and show the necessary ledger accounts in the books of Mr.X assuming that the expenses and commission of Mr.Y amounted to Rs.3000 and a Bank Draft was enclosed for the balance amount due.

[CONTINUED TO NEXT PAGE]



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13. padma bought goods of value Rs.15,000 and consigned them to Krishang on a joint venture profits being divisible equally. On the same day, she paid carriage Rs.900 and drew a bill on krishang for Rs.6000 and discounted the bill for Rs.5,880. On receipt of the goods, krishang paid carriage of Rs.300 and insurance Rs.400. prama received an account sales showing that the goods had realized gross Rs.25,500. Prepare the necessary Ledger accounts showing the results of the joint venture in the books of both the parties assuming that the final settlement was made.

(OR)

14. A and B entered into a joint venture contributing Rs.10,000 and Rs.8,000 respectively and sharing profits and losses in the ratio of 3:4. The purchases are Rs.16,000 and the sales amounted to Rs.20,000. The remaining stock is taken over by B for Rs.1,000. Expenses paid are Rs.800. A drew from the venture Rs.4,000. Pass Journal Entries and prepare necessary Accounts in the separate joint venture Books.
15. Ramesh purchased a second hand machine for Rs.34,000 on 1<sup>st</sup> July ,2016. He spent Rs.6,000 on its installation expenses. Depreciation is written off at 10% per annum on the original cost.on 30<sup>th</sup> June 2019 the machine was found to be unsuitable and sold for Rs.26,000. Prepare the machine account from 2016 to 2019 assuming that the accounts are closed on 31<sup>st</sup> December every year.

(OR)

16. A company writes off Depreciation at 16% on written Down value Method. On 1<sup>st</sup> July 2011, A machine was purchased for Rs.3,90,000 and spent 15,000 on its installation. On 30<sup>th</sup> November 2014, the machine was dismantled at a cost of Rs.5,000 and then was sold for Rs.1,50,000. On 1<sup>st</sup> December 2014, the company acquired and put into operation a new machine at a total cost of Rs.7,60,000. Depreciation was provided on the new machine on the same basis as in the case of the earlier machine. The company closes its books on 31<sup>st</sup> march. Prepare Machinery Account for the year ended 31<sup>st</sup> march.
17. Happy days Co. Ltd maintaining a provision for doubtful debts at 5% and a provision for discount at 2% on debtors. The ledger balances for the year ending 31<sup>st</sup> December 2009 was as follows.

1-1-2009	31-12-2009
Provision for doubtful debts	Rs.1,000
Provision for discount	380
Bad debts written off	300
Discount allowed	200
Sundry debtors	6,000

Prepare Bad debts account ,provision for doubtful debt accounts and discount allowed accounts in the books of Happy Days Co. Ltd for the year ending 31<sup>st</sup> December 2009.

(OR)

18. A firm desire to debit its profit and loss account with a uniform figure every year in respect of repairs and renewals. It expects that considering the life of the asset in question Rs.10,000 will be the average amount to be spent per year. Actual repairs are Rs.1000 in the first ,Rs.2300 in the second year and Rs.3,700 in the third year. show the provision for repairs and renewals account.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I BCA  
Subject : Computer Science  
Title of Paper : Object Oriented Analysis & Design  
Paper Code : R20BCA201  
W.E.F : 2023-24

Max Marks : 75  
Pass Mark : 30  
Duration : 3 Hrs  
Time : 9am - 12noon  
Date : 07.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X5=25M**

1. Explain abstraction.
2. Explain object oriented analysis.
3. Explain relationship among classes.
4. Nature of classification.
5. Explain use case analysis.
6. Explain structure diagram.
7. Explain Timing diagram.
8. When to use CRC cards.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X10=50M**

9. Explain Foundations of the object Model.

**(OR)**

10. Explain Modularity and Hierarchy concept.

11. Explain about class life cycle.

**(OR)**

12. Explain about polymorphism and Aggregation.

13. Explain Identifying classes and objects.

**(OR)**

14. Explain Naming Key Abstractions.

15. Explain about the Diagram taxonomy.

**(OR)**

16. Explain Deployment Diagram with example.

17. Explain object diagram and communication diagram with example.

**(OR)**

18. Explain activity diagram with example Bank application.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I BCA  
Subject : Computer Science  
Title of Paper : Data Base Management System  
Paper Code : R20BCA201A  
W.E.F : 2023-24

Max Marks : 60  
Pass Mark : 24  
Duration : 3 Hrs  
Time : 9am - 12 noon  
Date : 07.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Explain the advantages of DBMS.
2. Explain about the queries in DBMS.
3. Explain how to alter tables and views.
4. Explain about the primary key with example.
5. Explain about the functional dependencies.
6. Explain two phase Locking techniques for concurrency control.
7. What are Desirable properties of transactions.
8. Explain about the Hashing Techniques.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. What are the differences between File system and DBMS.

**(OR)**

10. Write about building blocks of Entity relationship diagram.

11. Explain about Integrity constraints.

**(OR)**

12. Explain about Relational Algebra in DBMS.

13. Explain about the SQL commands.

**(OR)**

14. What is Normalization? Explain 1NF, 2NF, and 3NF with examples.

15. Explain about the transaction and system concepts.

**(OR)**

16. Explain about the concurrency techniques.

17. Explain about the operations in Files.

**(OR)**

18. Explain about the parallelizing Disk access using RAID Technology.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I BCA  
Subject : Computer Science  
Title of Paper : Python Programming  
Paper Code : R20BCA203  
W.E.F : 2023-24

Max Marks : 75  
Pass Mark : 30  
Duration : 3Hrs  
Time : 9am-12noon  
Date : 08.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X5=25M**

1. Explain about python virtual machine.
2. Comparison between Java and Python.
3. Explain constraints in python.
4. Explain advantages of Array.
5. Explain about anonymous functions (or) Lambdas.
6. Explain Bit wise operators.
7. Explain Naming conversions in python.
8. Explain Recursive function in python.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X10=50M**

9. Explain the features of python.

**(OR)**

10. Explain writing our first python program.

11. Explain various data types in python.

**(OR)**

12. Explain operators in python.

13. Explain command line Arguments in python.

**(OR)**

14. Explain control statements in python.

15. Write a program to read and print array in python.

**(OR)**

16. Explain working with multidimensional arrays.

17. Define function? Explain functions calling, returning and Results from functions.

**(OR)**

18. Define list and explain procedure to create list with example.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I BCA  
Subject : Computer Science  
Title of Paper : Python Programming  
Paper Code : R20BCA203A  
W.E.F : 2022-23

Max Marks : 60  
Pass Mark : 24  
Duration : 3Hrs  
Time : 9am - 12 noon  
Date : 08.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Explain PVM.
2. Explain PYTHON Variables.
3. Explain about Assignment Operator.
4. Explain PYTHON I/O Statements.
5. Explain Continue Statement in PYTHON.
6. Explain types of Arrays in PYTHON.
7. How do you create arrays in PYTHON?
8. Explain Recursive function in PYTHON.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. Explain the features of PYTHON.

**(OR)**

10. Explain the History of PYTHON.
11. Explain the Arithmetic and Boolean Operators with examples.

**(OR)**

12. Explain the different Data Types in PYTHON.
13. Explain the If statements with examples.

**(OR)**

14. Explain different looping Statements with example.
15. Explain Multidimensional Arrays with example.

**(OR)**

16. Explain String functions with examples.
17. Explain different types of functions in PYTHON.

**(OR)**

18. Explain the procedure to create list with example.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I BCA/ B.Sc (DS, IOT)

Max Marks : 60

Subject : Computer Science

Pass Mark : 24

Title of Paper : Data Structures

Duration : 3 Hrs

Paper Code : R20BCA202A/R20DSDS201A/R20IOTDS201A

Time : 9am - 12 noon

W.E.F : 2022-23

Date : 09.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. What is a Data structure? Explain data structure operation.
2. Explain the concept of insertion sort.
3. Explain algorithm for selection sort.
4. Explain tower of Hanoi.
5. Draw and explain linked representation of stacks.
6. Explain polish notation with an examples.
7. Explain different types of queues.
8. Explain Root, leaf and sub tree.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. Explain the concept of Binary search with example.

**(OR)**

10. Explain classification of Data structures.

11. Write ac program for Bubble sort.

**(OR)**

12. Explain quick sort with example.

13. Explain stack using arrays.

**(OR)**

14. Explain insertion, deletion traversing and searching in linked list.

15. What is recursion? Explain algorithm for towers of Hanoi.

**(OR)**

16. Write a c program to implement queue using linked list.

17. Explain BFS with example.

**(OR)**

18. Explain tree terminology.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I BBA & BBA (Analytics)  
Subject : Commerce  
Title of Paper : Principles of Management  
Paper Code : R23BBA201  
W.E.F : 2023-24

Max Marks : 60  
Pass Mark : 24  
Duration : 3 Hrs  
Time : 9am - 12 noon  
Date : 07.05.2024

**SECTION-A**

**I. Answer ALL the following Questions**

**5X12=60M**

1. Define Management? Explain its Nature and Significance?

(OR)

Henry Fayol's  
2. Discuss the Principles of Management?

3. Explain the Various steps in Planning Process?

(OR)

4. State various types of Plans? Explain various Levels of Planning?

5. What is Line Organization? Write the Conflicts between Line and Staff?

(OR)

6. What is organizing? Explain its Nature and Importance?

7. Explain the nature and Purpose of Staffing?

(OR)

8. What is Motivation? Discuss the Maslow's theory of need Hierarchy?

9. Discuss the techniques of Managerial Control?

(OR)

10. Explain the requirements of an effective Control System?



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**  
**II - SEMESTER END EXAMINATIONS**

Class : I BBA  
Subject : Commerce  
Title of Paper : Business Economics  
Paper Code : R23BBA202  
W.E.F : 2023-24

Max Marks : 60  
Pass Mark : 24  
Duration : 3 Hrs  
Time : 9 am - 12 noon  
Date : 08.05.2024

**SECTION-A**

**I. Answer ALL the following Questions**

**5X12=60M**

1. Briefly discuss the nature and scope of Business Economics.

**(OR)**

2. Distinguish between Micro and Macro Economics.

3. Write about various measurement methods of Price elasticity of Demand.

**(OR)**

4. Briefly discuss various exceptions to Law of Demand with the help of Graph.

5. Define Cost of Production? Explain Classification of Costs?

**(OR)**

6. Explain Break Even Analysis with the help of graph.

7. What do you understand by the term – market? Explain classification of markets in brief.

**(OR)**

8. Explain how Equilibrium is determined under Monopoly?

9. Define Trade cycle? Briefly explain various phases or stages of Trade cycles.

**(OR)**

10. Explain the concepts of Liberalization, Privatization and Globalization?



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Regd No 52**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)****II - SEMESTER END EXAMINATIONS**

Class : I B.B.A(Business Analytics)

Max Marks : 60

Subject : Commerce &amp; Management

Pass Mark : 24

Title of Paper : Quantitative Methods For Managers

Duration : 3Hrs

Paper Code : R23BBAA202

Time : 9am - 12 noon

W.E.F : 2023-24

Date : 08.05.24

**SECTION-A****I. Answer ALL the following Questions****5X12=60M**

1. Solve the following simultaneous linear equation by using Cramer's Rule.

$$3x+4y+5z=18$$

$$2x-y-7z=13$$

$$5x-2y+7z=20$$

**(OR)**

2. Solve the following simultaneous linear equations.

$$3x+4y+5z=18$$

$$2x-y-7z=13$$

$$5x-2y+7z=20 \quad \text{By using Matrix inversion Method}$$

3. Define conditional Probability? state and prove Multiplication theorem on Probability.

**(OR)**

4. Fit a Poisson distribution for the following data and calculate the Expected Frequency.

X	0	1	2	3	4
Frequency	109	65	22	3	1

5. What is Arithmetic mean in statistics? Explain the benefits and costs of Arithmetic mean

**(OR)**

6. Calculate Standard deviation to the following data.

Age	15-25	25-35	35-45	45-55	55-65	65-75
Persons	4	11	19	14	1	1

7. Write the definition of LPP. Explain the applications of LPP in Management.

**(OR)**

8. Solve the following LPP by Graphical method

$$\text{Max } z = 5x_1 + 7x_2$$

$$\text{STC : } x_1 + x_2 \leq 4$$

$$3x_1 + 8x_2 \leq 24$$

$$10x_1 + 7x_2 \leq 35$$

$$x_1, x_2, x_3 \geq 0$$

**[P.T.O]**



9. Determine an IBFS to the following Transportation Problem using N.W.C.R

	D1	D2	D3	D4	Supply
1	6	4	1	5	14
2	8	9	2	7	16
3	4	3	6	2	5
Required	6	10	15	4	35

(OR)

10. Determine an IBFS to the following Transportation Problem Least cost Method

	D1	D2	D3	D4	Supply
1	6	4	1	5	14
2	8	9	2	7	16
3	4	3	6	2	5
Required	6	10	15	4	35



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I BBA  
Subject : Computers  
Title of Paper : E-COMMERCE  
Paper Code : R20BBA203  
W.E.F : 2022-23

Max Marks : 75  
Pass Mark : 30  
Duration : 3Hrs  
Time : 9am-12noon  
Date : 09.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X5=25M**

1. world wide web
2. E- market.
3. Supply chain management.
4. E-CRM.
5. HTML
6. Formatting text with HTML.
7. Hacking.
8. Electronic logistics.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X10=50M**

9. Explain the advantages and disadvantages of e-commerce?

**(OR)**

10. what are the three models of e-markets.
11. what are the advantages and limitations of EDI.

**(OR)**

12. Explain the benefits and goals of SCM.
13. Explain the objectives and benefits of cryptography?

**(OR)**

14. What are the advantages and limitations of E-Payment system.
15. Define CRM . Explain the components of CRM.

**(OR)**

16. Explain the objectives and importance of CRM.
17. What are the steps required in creating and executing a HTML document.

**(OR)**

18. Discuss the structure of HTML.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I BA Honours (Political Science)  
Subject : Politics  
Title of Paper : Fundamentals of Political Science  
Paper Code : R23PS201  
W.E.F : 2023-24

Max Marks : 60  
Pass Mark : 24  
Duration : 3 Hrs  
Time : 9am - 12noon  
Date : 07.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Importance of Political Science.
2. Post - Behaviorism.
3. Origin of the State.
4. General Will.
5. John Locke's – Social Contract Theory.
6. Patriarchal Theory.
7. Functions of Modern State.
8. Criticism of Welfare State.

**SECTION-B**

**II. Answer any FIVE of the following Questions**

**5X8=40M**

9. Define Political Science and explain its Scope.
10. Explain the relationship of Political Science with Society.
11. What is System approach of Political Science?
12. Write an essay on behavioral approach of Political Science.
13. Define State and essential elements of State.
14. Describe the relationship between State and Government.
15. Explain the Rousseau's Social Contract Theory.
16. Explain the Thomas Hobbes Social Contract Theory.
17. Describe the functions of Welfare State.
18. Explain the nature of Modern State.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I BA(Political Science)  
Subject : Sociology  
Title of Paper : Sociological Analysis  
Paper Code : R23MSOC201  
W.E.F : 2023-24

Max Marks : 60  
Pass Mark : 24  
Duration : 3 Hrs  
Time : 9am - 12 noon  
Date : 09.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Auguste comte.
2. Function of Human society.
3. Characteristics of primary group.
4. Define status and Role.
5. Socialization.
6. Forms of stratification.
7. What is meant by co-operation.
8. What is conflict.

**SECTION-B**

any FIVE of

**II. Answer any FIVE of the following Questions**

**5X8=40M**

9. Explain the Nature and scope of sociology.
10. Explain the relationship between sociology and political science.
11. Define social group and explain types of social groups.
12. Define culture and explain characteristics of culture.
13. What are the various Agencies of socialization.
14. Define social control and explain about its types.
15. Define stratification and explain its characteristics.
16. Describe the merits and de-merits of caste system.
17. Define Accommodation and explain various types of Accommodation.
18. Explain the importance of competition in Human society.



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<b>KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)</b>	
<b>II - SEMESTER END EXAMINATIONS</b>	
Class : I BA(Political Science)	Max Marks : 60
Subject : Politics	Pass Mark : 24
Title of Paper : Concepts & Ideologies of Political Science	Duration : 3 Hrs
Paper Code : R23PS202	Time : 9am - 12noon
W.E.F : 2023-24	Date : 08.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions** **5X4=20M**

1. Rule of law.
2. Political Liberty.
3. Scope of power.
4. Legitimacy.
5. Natural theory of Rights.
6. Fundamental rights.
7. Fascism.
8. Significance of socialism.

**SECTION-B**

**II. Answer ALL the following Questions** **5X8=40M**

9. Define Law and explain sources of law.
10. What is liberty? What are safe guards of liberty.
11. Define equality? Explain Different types of equality.
12. Define Authority and explain its Nature.
13. Define individualism and explain its principles.
14. Define Anarchism and explain its characteristics.
15. Define Rights and explain classification of rights.
16. Explain about social and welfare theory of rights.
17. Write an essay on Marxism.
18. Explain different phases of Nationalism.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.Com (Gen,TP,Comp & Log)

Max Marks : 60

Subject : Commerce

Pass Mark : 24

Title of Paper : Business Economics

Duration : 3 Hrs

Paper Code : R20COM202A

Time : 9am - 12 noon

W.E.F : 2022-23

Date : 08.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Macro Economics
2. Business Economics
3. Demand Function
4. Are method
5. Implicit and Explicit costs
6. Production function
7. Monopoly features
8. National Income

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. Explain the nature and scope of Business Economics

**(OR)**

10. Micro and Macro Economics – and their interface discuss in details

11. Discuss various determinants of Demand

**(OR)**

12. Explain Point Method in measuring –Price Elasticity of Demand

13. Briefly explain Law of variable Proportions with suitable diagram

**(OR)**

14. Explain about Law of Returns to Scale in detail

15. What is a Perfect Competition? What are its characteristics?

**(OR)**

16. Define Monopoly? Explain its characteristics?

17. Explain various methods of measuring National Income.

**(OR)**

18. Write various concepts of National Income



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.Com (Gen)  
Subject : Commerce  
Title of Paper : Banking Theory And Practice  
Paper Code : R20COMG203A  
W.E.F : 2022-23

Max Marks : 60  
Pass Mark : 24  
Duration : 3 Hrs.  
Time : 9am - 12 noon  
Date : 09.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Define a Scheduled Bank.
2. Explain the difference between central Bank and Commercial Bank.
3. What are the types of Co-operative Banks
4. What do you mean by internet banking?
5. Explain the functions of NABARD.
6. Briefly explain in the Banker's lien.
7. Discuss the agency services rendered by a banker.
8. Briefly explain the duties of a collecting Banker.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. Define commercial Bank. Discuss the functions of a commercial Bank.

**(OR)**

10. Define a central bank? What important role it can play in a developing Economy?

11. Explain Branch Banking. Discuss its advantages and limitations.

**(OR)**

12. Discuss the E-Banking. Explain advantages of E-Banking

13. Define Regional Rural Banks. Briefly explain the functions of RRBs.

**(OR)**

14. Define Indigenous Bankers. Explain the importance and functions of indigenous bankers.

15. Explain briefly the special relationship between banker and customer.

**(OR)**

16. What are precautions a banker has to take while opening and operating?  
a) Partnership b) Joint Accounts

17. Define paying Banker. Discuss the Responsibilities and Duties of Paying Banker.

**(OR)**

18. Define Payment Gateway. What are benefits?



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Regd No: 60**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)****II - SEMESTER END EXAMINATIONS**

Class : I B.Com (TP)  
 Subject : Commerce  
 Title of Paper : Income Tax-II  
 Paper Code : R20COMT203A  
 W.E.F : 2022-23

Max Marks : 60  
 Pass Mark : 24  
 Duration : 3 Hrs  
 Time : 9am - 12 noon  
 Date : 09.05.2024

**SECTION-A****I. Answer any FIVE of the following Questions****5X4=20M**

1. Claim of additional depreciation
2. Define Business and Profession
3. What do you mean by cost of acquisition?
4. Types of Capital assets.
5. Deduction U/s 57
6. Aggregation of minor income.
7. How is speculation loss treated
8. Explain about U/s 80G

**SECTION-B****II. Answer ALL the following Questions****5X8=40M**

9. Define Depreciation. What are the rules regarding claiming of Depreciation.

**(OR)**

10. From the Profit and Loss Account of Mr. Ramesh for the year ended 31-3-2021. Compute the income from business for the A.Y. 2021 - 22.

Particulars	Rs.	Particulars	Rs.
Office Expenses	40,000	Gross profit b/d	6,40,000
General Expenses	16,000	Interest on Govt. Securities	11,200
Interest on Bank Loan	4,000	Discounts received	16,000
Audit fees	4,000	Bad debts recovered (not written off earlier year)	800
Interest on capital	12,000	Sundry receipts	16,000
Rent	20,000	Dividend	16,000
Provision for income tax	16,000		
Charity	8,000		
Legal expenses	4,000		
Compensation to retrenched Employees	20,000		
Extension of building	36,000		
GST	8,000		
Net Profit	5,12,000		
	<b>7,00,000</b>		<b>7,00,000</b>

**Additional information:**

1. General charges included Rs.8,000 towards purchase of computer.
2. Legal expenses include Rs.1600 penalty by customs authority.
3. Rent includes Rs.8,000 paid as rent of the house in which the assessee lives.
4. Depreciation allowed Rs.12,000 as per income tax rules. (Excluding depreciation on computer purchased)
5. Income tax provision is excessive to the extent of Rs.5,000.



11. How to compute short term capital gain and long term capital gain?

(OR)

12. Mr. Vinod (resident) purchased a residential house in Mysore on 1-4-1979 for Rs.25,000 and added first floor in 1980 at a cost of Rs.7,000.

On 1<sup>st</sup> November 2010 he gifted the house to his son Mr. Anand, who added two rooms in June 2013 at a cost of Rs.20,000.

On 1<sup>st</sup> November 2020, Mr. Anand sold the property for Rs.15,00,000.

Find out the taxable capital gain if the fair market value of the property as on

1-4-2001 is Rs.75,000. (CII 2020-21 = 301, 2013-14 = 220, 2010-11 = 167, 2001-02 = 100).

13. What are the specific incomes under the head income from other sources.

(OR)

14. Following incomes are received by Mr. Ajay (resident) in the previous year 2020-21).

Compute his taxable income from the head other sources.

a) Directors fees Rs.10,000.

b) Interest from Saving Bank Account Rs.500.

c) Dividend received from Co-operative Society Rs.7,000.

d) Winning from Andhra Pradesh state Lottery Rs.28,000 (net).

e) Family pension received Rs.30,000 p.a.

f) Dividend received on preference shares Rs.10,000 p.a.

g) Insurance commission received Rs.23,500 (expenses incurred in earning insurance commission Rs.2,500)

h) Mr. Ajay received a gold chain from his friend as gift. Its fair market value is Rs.32,000 and painting from another friend as gift. Its fair market value is Rs.18,000.

15. What are the provisions of law regarding to clubbing of income.

(OR)

16. What are the provisions of income tax Act 1961, regarding carry forward and set off losses.

17. Explain about Deductions U/s 80G.

(OR)

18. Mr. Muniraju furnishes the following incomes.

Compute taxable income.

Income from salary Rs.4,50,000 p.a. (Computed)

Income from house property Rs.2,00,000 p.a. (Computed)

Income from other sources Rs.3,00,000 p.a.

His other information are as follows LIC premium paid Rs.6,000 p.m.

Medical insurance paid Rs.30,000 p.a.

Donation to : 1. P.M. National relief fund Rs.20,000

2. University of national eminence Rs.10,000



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.Com(Gen, TP, Comp) & BBA  
Subject : Commerce  
Title of Paper : Management Process  
Paper Code : CBMP201  
W.E.F : 2018-19

Max Marks : 75  
Pass Mark : 30  
Duration : 3 Hrs  
Time : 9am-12 noon  
Date : 10.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X5=25M**

1. Is management art, science or profession.
2. Span of control.
3. Delegation of Authority.
4. Importance of Motivation.
5. Recruitment.
6. Significance of planning.
7. Requirements of effective control.
8. MBO.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X10=50M**

9. What is meant by Management? Explain its functions.

**(OR)**

10. Explain the principles of Henry Fayol.

11. Explain the principles of planning.

**(OR)**

12. Explain various stages in the process of planning.

13. Explain differences between formal and informal organizations.

**(OR)**

14. Explain types, Advantages and disadvantages of Departmentalization.

15. Explain meaning and importance of staffing.

**(OR)**

16. Define communication and explain barriers of communication.

17. Explain the importance and process of controlling.

**(OR)**

18. What is controlling? Explain problems of controlling.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**  
**II SEMESTER END EXAMINATIONS**

Class : I B.Com (GEN, TP, COMP)  
Subject : Commerce  
Title of Paper: Business Economics  
Paper Code : CBBE201A  
W.E.F : 2018-19

Max Marks : 75  
Pass Mark : 30  
Duration : 3 Hrs  
Paper Time : 9am - 12 noon  
Date : 08.05.24

**SECTION - A**

**I. Answer any FIVE Of the following questions.**

**5X5=25M**

1. Cobb -Douglas production function.
2. W.T.O. objectives.
3. Characteristics of Monopoly.
4. Concept of Market.
5. Kinky Demand Curve.
6. Product differentiation.
7. Features of mixed Economy.
8. Benefits of International Trade.

**SECTION - B**

**II. Answer ALL the following Questions**

**5X10=50M**

- 9 Define costs and classification of costs.  
(OR)
- 10 Explain Economies of Scale.
- 11 How is Price determined under perfect competition?  
(OR)
- 12 Define Market? and classification of markets.
- 13 How is Price determined under oligopoly market?  
(OR)
- 14 Explain price and output determination of under monopolistic competition.
- 15 Define National Income and explain the methods of measuring National Income.  
(OR)
- 16 Explain the differences between Free Market economy and socialist economy.
- 17 Explain the concepts of Economic liberalization, privatization and globalization.  
(OR)
- 18 Define Trade cycles and explain the phases of Trade cycles.

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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.COM (COMP)

Max Marks : 75

Subject : Computer Science

Pass Mark : 30

Title of Paper : E- Commerce & Web Designing

Duration : 3Hrs

Paper Code : R20COMC203

Time : 9am - 12noon

W.E.F : 2022-23

Date : 09.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X5=25M**

1. Write applications of E-Commerce?
2. Write a short note on overview of HTML?
3. How to set body and background attributes in HTML? Explain
4. Explain how to define your own Styles?
5. Write a short note on Advantages of CSS?
6. Explain DOM?
7. Explain briefly about Data Types in Java Script?
8. How do you open a new window in DHTML? Explain?

**SECTION-B**

**II. Answer ALL the following Questions**

**5X10=50M**

9. Define E-Commerce? Explain advantages and limitations of E-Commerce?

**(OR)**

10. Explain in detail about Advertising and Online payment system?
11. Explain the Structure of HTML with an example program?

**(OR)**

12. Explain in detail about Working with tables in HTML?
13. What is CSS? Explain about CSS Properties?

**(OR)**

14. Explain different types of CSS with examples?
15. Explain different types of Operators in Java Script?

**(OR)**

16. Give a brief account on Control Flow Statements?
17. Write a code for Data validation in DHTML?

**(OR)**

18. Explain about Status bar, Messages and Confirmation ?



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I B.Com (Comp)  
Subject : Computer Science  
Title of Paper : E-Commerce And Web Designing  
Paper Code : R20COMC203A  
W.E.F : 2022-23

Max Marks : 60  
Pass Mark : 24  
Duration : 3 Hrs  
Time : 9am - 12 noon  
Date : 09.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Explain limitations of E-commerce
2. Write about structure of HTML with example
3. How to add images to a web page using hyperlinks with example
4. Explain about Internal Cascading Style sheets
5. Explain different properties and values in CSS
6. Write down the benefits and problems of JavaScript
7. Explain about functions in JS with example
8. What is Dynamic HTML

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. Explain briefly about a) online trading    b) online auction    c) online advertising

**(OR)**

10. Explain applications of E-commerce

11. Explain different Formatting tags in HTML

**(OR)**

12. Explain table related tags and attributes with an example program

13. Explain about different types of CSS

**(OR)**

14. Write about formatting a blocks of information

15. Write down the array functions in JavaScript with examples

**(OR)**

16. Define Events and Event Handlers in JavaScript

17. Write a code for data validation in DHTML

**(OR)**

18. Explain about messages and confirmations in DHTML



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I B.Com (Comp)  
Subject : Commerce  
Title of Paper : Principles of HRM  
Paper Code : R23MMT203  
W.E.F : 2023-24

Max Marks : 60  
Pass Mark : 24  
Duration : 3 Hrs  
Time : 9am - 12 noon  
Date : 08.05.2024

**SECTION-A**

**5X12=60M**

**I. Answer ALL the following Questions**

1. Explain about Nature and Scope of HRM?

**(OR)**

2. Explain functions of HRM?

3. Define Job Specification and its Contents?

**(OR)**

4. Explain the Various Steps involved in selection Process?

5. Define training and its various types?

**(OR)**

6. Explain the methods of Executive Development Program?

7. Define Performance Appraisal? Explain its Methods?

**(OR)**

8. Explain the process of Performance Appraisal?

9. Define Industrial Relations? Explain its Objectives?

**(OR)**

10. Explain the Process of Collective Bargaining?



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I B.Sc (MPC, MPCS)

Max Marks : 60

Subject : Physics

Pass Mark : 24

Title of Paper : Wave Optics

Duration : 3 Hrs

Paper Code : R20PHY201A

Time : 9am - 12 noon

W.E.F : 2022-23

Date : 08.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Explain the formation of colours in thin films.
2. Distinguish between Fresnel and Fraunhofer diffraction.
3. State and explain Malus law.
4. Explain the defect coma.
5. What is holography? Write its applications.
6. In a Newton's rings experiment, the diameter of the 10<sup>th</sup> dark ring is 0.433cm. If the radius of curvature of lens is 70cm then find the wavelength of light used.
7. A grating has 15 cm of the surface ruled with 6000 lines per cm. What is the resolving Power of grating in the first order?
8. Calculate the thickness of a quarter wave plate. Given  $\mu_e=1.533$ ,  $\mu_o=1.544$  and  $\lambda=5000\text{\AA}$

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. Describe the construction and working of Michelson interferometer. Explain how to determine the wavelength of light using it.

**(OR)**

10. How to determine the wavelength of monochromatic light using Newton's rings with necessary theory

11. What is diffraction of light? Explain Fraunhofer diffraction due to single slit.

**(OR)**

12. What are Fresnel's half period zones? Explain the construction and working of a zone plate.

13. Explain the construction and working of Nicol prism. Mention its uses.

**(OR)**

14. What is specific rotation? Explain how it is determined by using Laurent's half shade polarimeter.

**[P.T.O]**



15. Explain spherical aberration. How the spherical aberration eliminated by using two lenses separated by a distance.

(OR)

16. Explain the principle of fiber communication. What are applications of optical fiber communication?

17. What is population inversion? Explain the construction and working of Ruby laser.

(OR)

18. Describe the construction and working of He-Ne laser.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.Sc Honours (Physics)  
Subject : Physics  
Title of Paper : Waves And Oscillations  
Paper Code : R23PHY202  
W.E.F : 2023-24

Max Marks : 60  
Pass Mark : 24  
Duration : 3 Hrs  
Time : 9am - 12noon  
Date : 08.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Explain the physical characteristics of SHM.
2. Explain relaxation time and Q- factor
3. State Fourier theorem and write the limitations of the theorem
4. Explain how the frequency of a tuning fork is determined
5. Write the properties of ultrasonics
6. Calculate the fundamental frequency of a quartz crystal of thickness 3 mm,  $Y = 8 \times 10^{10} \text{ N/m}^2$  and  $P = 2.5 \times 10^3 \text{ Kg /m}^3$ .
7. The amplitude of a second pendulum falls to half of its initial value in 150 sec. Calculate the Q-factor.
8. A steel wire of 150 cm length has mass 5g. It is stretched with a tension of 1200 N. Find the velocity of transverse wave travelling in the string.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. What is simple harmonic oscillator? Derive the equation of motion of simple harmonic oscillator and find its solution.

**(OR)**

10. Discuss the linear combination of simple harmonic oscillation of same frequencies at right angles.

11. What are damped oscillations? Derive the equation of motion damped oscillator and find its solution.

**(OR)**

12. Define forced vibrations, derive the equation of motion of forced oscillator and hence obtain the solution

13. State and explain Fourier theorem. Derive the expression for Fourier coefficients

**(OR)**

14. Analyse saw-tooth wave using Fourier theorem.

15. Derive an expression for the velocity of a transverse wave in a stretched string.

**(OR)**

16. Deduce the solution of a longitudinal wave in the case of a bar clamped rigidly at both the ends.

17. What are ultrasonic waves. Describe the magnetostriction method for the production of ultrasonics

**(OR)**

18. Explain the method of production of ultrasonics using piezo electric method.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.SC(Physics)  
Subject : Physics  
Title of Paper : Mechanics & Properties of Matter  
Paper Code : R23PHY201/R23MPHY203  
W.E.F : 2023-24

Max Marks : 60  
Pass Mark : 24  
Duration : 3 Hrs  
Time : 9am - 12 noon  
Date : 10.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. What is curl of a vector and explain physical significance.
2. Explain multistage rocket.
3. Write a short note on gyroscope.
4. Show that the central force is conservative in nature.
5. Explain time dilation.
6. Show that  $\nabla \cdot (\nabla \times A) = 0$
7. Estimate the mass of the sun assuming the orbit of earth round the sun is a circle. The distance between the sun and the earth is  $1.49 \times 10^{11} \text{m}$  and  $G = 6.67 \times 10^{-11} \text{N-m}^2/\text{kg}^2$ .
8. A Rocket of mass 40 kg has got a fuel of mass 360 kg inside it. The exhaust velocity of the fuel is 2 km/sec. The fuel is burning at the rate of 4kg/sec. Find the final velocity of rocket.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. State and prove Gauss's theorem of Divergence with a neat diagram.  
(OR)
10. State and Prove Stoke's theorem.
11. Derive the motion of system of variable mass. Derive the expression for final velocity of Rocket  
(OR)
12. Derive Rutherford scattering formula.
13. Deduce an expression for angular velocity of precession of a Spinning top.  
(OR)
14. Define the three elastic moduli and obtain the relation between them.
15. Deduce the equation of motion of a body under Central Force.  
(OR)
16. State Kepler's laws of planetary motion. Derive the Kepler's first law.
17. Describe Michelson-Morley experiment with necessary theory.  
(OR)
18. State postulates of Special Theory of Relativity. Derive Lorentz transformation equations.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I B.SC(MPC,MPCS)

Max Marks : 75

Subject : Physics

Pass Mark : 30

Title of Paper : Wave Optics

Duration : 3 Hrs

Paper Code : R20PHY201

Time : 9am - 12noon

W.E.F : 2023-24

Date : 08.05.2024

**SECTION-A**

**I. Answer ALL of the following Questions**

**5X10=50M**

1. Describe Newton's rings experiment to determine the wavelength of monochromatic light with necessary theory.

**(OR)**

2. Describe the construction and working of Michelson's Interferometer. How can you determine the wavelength of mono-chromatic light

3. Explain Fraunhofer diffraction due to single slit with necessary theory.

**(OR)**

4. Describe the construction and working of a Zone plate. Derive expression for the focal length of Zone plate.

5. Describe the construction and working of Nicol's prism. Explain how can it be used as a polarizer and analyzer.

**(OR)**

6. Explain how to determine the specific rotation by using Laurent's half shade polarimeter.

7. Derive equations for achromatism when two thin lenses are (a) in contact and (b) separated by a distance.

**(OR)**

8. What are Step index and Graded index optical fibers. Explain.

9. Describe the construction and working of Ruby laser with a neat diagram.

**(OR)**

10. Write the basic principle of Holography. Write any five applications of Holography.

**SECTION-B**

**II. Answer THREE the following Questions**

**3X5=15M**

11. Explain the formation of colours in thin films.

12. Compare Zone plate with a convex lens

13. State and explain Brwester's law.

14. Explain about the defect 'Coma' in lenses with a neat diagram.

15. Write any five applications of LASER

**SECTION-C**

**III. Answer TWO the following Questions**

**2X5=10M**

16. In Newton's rings experiment, the diameter of 10<sup>th</sup> dark ring is 0.4 cm. Find the wave length of incident light if the radius of curvature of the lens is 60 cm.

17. Calculate the minimum thickness of quarter wave plate made of quartz to be used for a light of wavelength 6000Å. Given that  $\mu_o = 1.544$  &  $\mu_e = 1.533$ .

18. There are 15000 lines per inch in a grating. What is the maximum number of orders? obtained by using light of wavelength 6000 Å?

19. Find the radius of first zone in a zone plate of focal length 20cm. for a light of wave length 5000Å.

20. Two thin convex lenses of focal length 20 cm. and 25 cm. are placed co-axially 10 cm. apart Find the effective focal length of the combination.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I B.Sc(All Science Groups)

Max Marks : 50

Subject : Physics

Pass Mark : 20

Title of Paper : Solar Energy

Duration : 2Hrs

Paper Code : R20SDC201

Time : 9 am - 11 am

W.E.F : 2020-21

Date : 02-05-2024

**SECTION-A**

**I. Answer any FOUR of the following Questions**

**4X5=20M**

1. Explain the Solar radiation at the earth's surface.
2. Write a short note on Solar Green House.
3. Write a short note on Solar Dryers.
4. Explain the construction & working of a Sun Shine Recorder.
5. Explain the construction and working of a Street Light.
6. Write a short note on Solar Pond.
7. Explain the process of Solar Distillation with a neat diagram.
8. Write a short note on Water Pumping.

**SECTION-B**

**II. Answer any THREE of the following Questions**

**3X10=30M**

9. Explain the principle, construction & working of a Pyrheliometer.
10. Explain the principle, construction and working of a Solar Cookers.
11. Explain the series and parallel combination of Solar cells.
12. What is Photovoltaic Effect? Explain the working principles of Solar Photovoltaic Cell.
13. Explain the principle, construction and working of a Solar Thermal Power Plant.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.Sc (MPC, MPCS)  
Subject : Physics  
Title of Paper : Waves And Oscillations  
Paper Code : CBPHY201A  
W.E.F : 2018-19

Max Marks : 75  
Pass Mark : 30  
Duration : 3 Hrs  
Time : 9am - 12noon  
Date : 08.05.2024

**SECTION-A**

**I. Answer ALL the following Questions**

**5X10=50M**

1. a) Explain with necessary theory what happens when two Simple Harmonic Motions of same frequency simultaneously acts on a body at right angles to each other.

**(OR)**

b) Define SHM? Derive the equation of motion of SHO and obtain its solution.

2. a) Obtain the differential equation of a damped oscillator and discuss its solution under different cases.

**(OR)**

b) Discuss the differential equation of a forced oscillator and obtain its solution.

3. a) State Fourier's theorem and use it to analyse a Square wave.

**(OR)**

b) State Fourier theorem and evaluate the Fourier coefficients.

4. a) Discuss the modes of vibration of stretched string clamped at both ends. Explain overtones and harmonics?

**(OR)**

b) Derive an expression for the velocity of longitudinal wave in a bar and write the general solution of a longitudinal wave equation?

5. a) Describe how ultrasonic waves are produced by magnetostriction method with diagram?

**(OR)**

b) What is Piezo electric effect? Explain how ultrasonics are produced by this method?

**SECTION-B**

**II. Answer any THREE Questions**

**3X5=15M**

6. Derive the equation for time period of a Torsional pendulum.

7. Explain Quality factor?

8. What are the limitations of Fourier theorem?

9. Write the laws of transverse waves in a stretched string.

10. Write short note on tuning fork.

11. Mention any four applications of Ultrasonics

**[P.T.O]**



**SECTION-C****2X5=10M****III. Answer any TWO Questions**

**12.** The displacement equation of a particle describing SHM is  $x = 0.01 \sin 50\pi(t + 0.007)m$ .

Calculate the amplitude, Time period and maximum velocity.

**13.** A mass of a 0.04kg is attached to a spring of force constant 160N/m. If the relaxation time is 0.05sec. Find the Q-factor.

**14.** A steel wire 50 cm long has mass of 5 gm. It is stretched with a tension of 400 N. Find the frequency of the wire in fundamental mode of vibration.

**15.** Calculate the fundamental frequency of a quartz crystal of thickness 3mm,  $Y = 8 \times 10^{10} \text{N/m}^2$  and  $\rho = 2.5 \times 10^3 \text{kg/m}^3$ .



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)****II - SEMESTER END EXAMINATIONS**

Class : I B.Sc(Mathematics)

Subject : Mathematics

Title of Paper : Analytical Solid Geometry &amp; Problem Solving Sessions

Paper Code : R23MAT202

W.E.F : 2023-24

Max Marks : 60

Pass Mark : 24

Duration : 3Hrs

Time : 9am - 12noon

Date : 08-05-2024

**SECTION-A****5X4=20M****I. Answer any FIVE of the following Questions**

- Find the equation of the plane through the points (2,2,1), (9,3,6) and perpendicular to the plane  $2x+6y+6z=9$ .
- If a plane meets the coordinate axis in A,B,C such that the centroid of the triangle ABC is the point (a,b,c) then show that the equation of the plane is  $\frac{x}{a} + \frac{y}{b} + \frac{z}{c} = 3$
- Find the image of the point (2,-1,3) in the plane  $3x-2y+z=9$ .
- Find the equation of the line through the point (1,2,4) and parallel to the line  $3x+2y-z=4, x-2y-2z=5$ .
- Show that the spheres  $x^2+y^2+z^2=25$  and  $x^2+y^2+z^2-24x-40y-18z+225=0$  touch externally.
- Find the pole of the plane  $x-y-z+9=0$  with respect to the sphere  $x^2+y^2+z^2-2x+4y-6z+5=0$
- Show that the spheres  $x^2+y^2+z^2+6y+2z+8=0$  and  $x^2+y^2+z^2+6x+8y+4z+20=0$  are orthogonal.
- Find the enveloping cone of the sphere  $x^2+y^2+z^2+2x-2y=2$  with its vertex (1,1,1).

**SECTION-B****5X8=40M****II. Answer ALL the following Questions**

- A variable plane is at a constant distance 'p' from the origin and meets the coordinate axes A, B, C. Show that the locus of the centroid of the tetrahedron OABC is  $x^{-2} + y^{-2} + z^{-2} = 16p^{-2}$

**(OR)**

- Prove that equation  $2x^2 - 6y^2 - 12z^2 + 18yz + 2zx + xy = 0$  represents a pair of planes. Also find the angle between them.

- Show that lines  $\frac{x+1}{1} = \frac{y+1}{2} = \frac{z+1}{3}$  and  $x+2y+3z-8=0=2x+3y+4z-11$  are intersecting. Find the point of intersection and the equation of the plane containing them.

**(OR)**

- Find the shortest distance and equations of shortest distance between the two lines

$$\frac{x-3}{3} = \frac{y-8}{-1} = \frac{z-3}{1} ; \frac{x+3}{-3} = \frac{y+7}{2} = \frac{z-6}{4}$$

**[P.T.O]**



- 76.
13. Show that the circles  $x^2+y^2+z^2-y+2z=0$ ,  $x-y+z-2=0$  and  $x^2+y^2+z^2+x-3y+z-5=0$ ,  $2x-y+4z-1=0$  lie on the same sphere and find its equation.

(OR)

14. Find the equation of the sphere through the points  $(1,-4,3)$ ,  $(1,-5,2)$ ,  $(1,-3,0)$  and whose centre lies on the plane  $x+y+z=0$ .

15. Find the equation of the sphere through the circle  $x^2+y^2+z^2-2x+3y-4z+6=0$ ,  $3x-4y+5z-15=0$  and cutting the sphere  $x^2+y^2+z^2+2x+4y-6z+11=0$  orthogonally.

(OR)

16. Find the limiting points of the co-axial system of spheres  $x^2+y^2+z^2-20x+30y-40z+29+\lambda(2x-3y+4z)=0$ .

17. Find the equation to the Right circular cone whose vertex is  $P(2,-3,5)$ , axis PQ which makes equal angles with the axes and semi vertical angle is  $30^\circ$ .

(OR)

18. Find the equation to the cone which passes through the three coordinate axes as and the two lines  $\frac{x}{1} = \frac{y}{-2} = \frac{z}{3}$  and  $\frac{x}{2} = \frac{y}{1} = \frac{z}{1}$ .



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)****II - SEMESTER END EXAMINATIONS**

Class : I B.SC(Mathematics,Computers)

Max Marks : 60

Subject : Mathematics

Pass Mark : 24

Title of Paper : Differential Equations &amp; Problem Solving Session Duration : 3 Hrs

Paper Code : R23MAT201/R23MMAT203

Time : 9am-12noon

W.E.F : 2023-24

Date : 10.05.24

**SECTION-A****I. Answer any FIVE of the following Questions****5X4=20M**

1. Solve  $(e^y + 1) \cos x dx + e^y \sin x dy = 0$ .

2. Solve  $(x^2 + 1) \frac{dy}{dx} + 4xy = \frac{1}{x^2 + 1}$ .

3. Solve  $p^2 - 5p + 6 = 0$ .

4. Solve  $y^2 - 2pxy + p^2(x^2 - 1) = m^2$ .

5. Solve  $\frac{d^3y}{dx^3} + 6\frac{d^2y}{dx^2} + 11\frac{dy}{dx} + 6y = 0$ .

6. Solve  $(D^2 - 5D + 6)y = e^x$ .

7. Solve  $\frac{d^2y}{dx^2} - 6\frac{dy}{dx} + 13y = 8e^{3x} \sin 2x$ .

8. Solve  $3x^2 \frac{d^2y}{dx^2} + x \frac{dy}{dx} + y = x$ .

**SECTION-B****II. Answer ALL the following Questions****5X8=40M**

9. Solve  $x^2y dx - (x^3 + y^3)dy = 0$ .

**(OR)**

10. Solve  $x \frac{dy}{dx} + y = y^2 \log x$ .

11. Find the orthogonal trajectories of the family of curves  $r = a(1 - \cos \theta)$ , where 'a' is the parameter.**(OR)**

12. Solve  $p^2 + 2py \cot x = y^2$ .

13. Solve  $(D^2 + 9)y = \cos^3 x$ .

**(OR)**

14. Solve  $(D^2 - 4D + 3)y = \sin 3x \cos 2x$ .

15. Solve  $(D^2 - 2D + 4)y = 8(x^2 + e^{2x} + \sin 2x)$ .

**(OR)**

16. Solve  $\frac{d^2y}{dx^2} + 3\frac{dy}{dx} + 2y = xe^x \sin x$ .

17. Solve  $(D^2 + a^2)y = \tan ax$  by the method of variation of parameters.**(OR)**

18. Solve  $(x^2 D^2 - xD - 3)y = x^2 \log x$ .



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I B.Sc (MECS)

Max Marks : 60

Subject : Electronics

Pass Mark : 24

Title of Paper : Digital Electronics

Duration : 3 Hrs

Paper Code : R20ELE201A

Time : 9am - 12 noon

W.E.F : 2022-23

Date : 08.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Explain about Gray code and its conservation with example.
2. Explain about Binary addition and Binary Subtraction with examples.
3. Explain about don't care Condition in K- map.
4. Write a brief note on SOP and POS forms with examples.
5. Explain the Magnitude comparator.
6. Define Decoder. Explain about 3 to 8 line decoder with diagram and truth table.
7. Explain about Mod-8 Asynchronous counter.
8. Write a short note on EAROM.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. Explain about Decimal, Binary, Hexadecimal, and Octal & BCD number systems with examples.

**(OR)**

10. Explain about Excess-3 code & BCD to Excess-3 code to BCD Conversions.
11. Explain about NAND as Universal gate (AND, OR, NOT, NOR, XOR from NAND)

**(OR)**

12. Write about Karnaugh Maps & Explain about 2, 3, 4 & 5 variable K-maps with tables.

13. Explain the working of Half sub tractor & Full sub tractor with their diagrams and truth tables.

**(OR)**

14. Define De-multiplexer? Explain the working of 1 to 2 & 1 to 4 De-multiplexer with diagrams.

15. Explain the working of Asynchronous Mod-16 Counter with diagram.

**(OR)**

16. Explain the operation of Master -Slave flip flop with neat circuit & timing diagrams.

17. Explain about operation of programmable Array logic with diagram.

**(OR)**

18. Draw and Explain the working and characteristics of TTL logic.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class	: I B.SC(COMPUTERS,ELECTRONICS)	Max Marks	: 60
Subject	: Electronics	Pass Mark	: 24
Title of Paper	: Fundamentals of Electricity & Electronics	Duration	: 3 Hrs
Paper Code	: R23ELE201/R23MELE203	Time	: 9am-12noon
W.E.F	: 2023-24	Date	: 10.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Write a short note on electric Di-pole.
2. What do you mean by electric flux?
3. Derive an expression for the energy of a charged condenser.
4. Write a short note on Biot-savart's law.
5. Explain about the working of half wave rectifier.
6. Write a short note on Clipper and Clamper using diodes.
7. Write a short note on h-parameters.
8. What are the applications of CE mode?

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. State and Prove Gauss theorem in electrostatics. Derive an expression for the electric field due to uniformly charged sphere.  
(OR)
10. What is Electrostatics? Deduce coulomb's law from Gauss Law.
11. Derive the expression for the capacity of (i) Parallel Plate Capacitor (ii) Spherical Capacitor.  
(OR)
12. Explain briefly about different types of capacitors.
13. Describe the construction and working of ballistic galvanometer.  
(OR)
14. Explain principle and working of Carey foster bridge.
15. Explain about the V-I characteristics of Zener diode.  
(OR)
16. Explain briefly about Bridge wave rectifier and derive an expression for efficiency of the rectifier.
17. Draw and explain the frequency response of single stage RC Coupled Amplifier  
(OR)
18. What are logic gates? Explain construction of basic logic gates using diodes and transistors.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I B.Sc (ELE)

Max Marks : 60

Subject : Electronics

Pass Mark : 24

Title of Paper : Circuit Theory And Electronic Devices

Duration : 3 Hrs

Paper Code : R23ELE202

Time : 9am - 12 noon

W.E.F : 2023-24

Date : 08.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Explain phasor relation of R, L and C
2. What do you mean by Node voltage method of analysis?
3. State and prove Reciprocity theorem.
4. Explain the Action of High Pass filter with RC combination.
5. Explain the working of Integrator and Differentiator with RL combination.
6. Explain the differences between BJT and FET.
7. Write a short note on UJT as a Relaxation oscillator
8. Write a short note on  $\pi$  - section filter.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. Derive an expression for Average and RMS value of an AC.

**(OR)**

10. Difference between AC and DC.
11. How do you convert star to delta and delta to star?

**(OR)**

12. State and prove Maximum power transfer theorem.
13. What is Filter? Explain the Frequency response of RC circuit

**(OR)**

14. Define Resonance. Obtain an expression for the resonant frequency and Q-factor For a Parallel Resonance circuit.

15. Explain about CE configuration of BJT & its characteristics.

**(OR)**

16. Explain the working of MOSFET. Explain Depletion, Enhancement modes.

17. What is rectifier? Derive an expression for Full wave rectifier with neat circuit and wave forms

**(OR)**

18. Explain about Characteristics of LED.



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Regd No: 81**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)****II - SEMESTER END EXAMINATIONS**

Class : I B.SC(STAT)

Max Marks : 60

Subject : Statistics

Pass Mark : 24

Title of Paper : Descriptive Statistics

Duration : 3 Hrs

Paper Code : R23STAT201

Time : 9 am - 12 noon

W.E.F : 2023-24

Date : 07.05.2024

**SECTION-A****I. Answer any FIVE of the following Questions****5X4=20M**

1. Explain classification of data.
2. Define Ogive curves.
3. Explain Geometric Mean and Harmonic Mean.
4. Explain the concept of Median.
5. Explain about Sheppard's correction for moments.
6. Explain the concept of Kurtosis.
7. Define Equally likely, Mutually exclusive events.
8. Define Conditional Probability and independent events

**SECTION-B****II. Answer ALL the following Questions****5X8=40M**

9. Explain the various methods of collecting Primary data.

**(OR)**

10. Explain Functions, Importance and Limitations of Statistics in different fields.

11. Draw the Ogive curves from the following data

Size	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60
Frequency	20	60	100	150	75

**(OR)**

12. Construct a suitable histogram from the following data.

Wages in Rupees	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80
Frequency	60	140	110	150	120	100	90

13. Calculate Mean for the following frequency distribution.

Class interval	0 - 8	8 - 16	16 - 24	24 - 32	32 - 40	40 - 48
Frequency	8	7	16	24	15	7

**(OR)**

14. Explain all measures of Central Tendency.

**[P.T.O]**



15. Calculate Quartile Deviation from the following data.

Marks	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70
No. of students	6	5	8	15	7	6	3

(OR)

16. Derive the relation between Central moments in terms of Non - Central Moments and deduce the first four central moments.

17. State and prove Boole's inequality.

(OR)

18. State and prove Bayes' theorem.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)****II - SEMESTER END EXAMINATIONS**

Class : I B.Sc Honours (STAT, DS)

Max Marks : 60

Subject : Statistics

Pass Mark : 24

Title of Paper: Random Variables &amp; Mathematical Expectations

Duration : 3 Hrs

Paper Code : R23STAT202/R23MSTAT203

Time : 9am - 12 noon

W.E.F : 2023-24

Date : 08.05.2024

**SECTION-A****I. Answer any FIVE of the following Questions****5X4=20M**

1. Define discrete random variable with example.
2. Define Joint probability density function.
3. State and prove multiplication theorem of expectation for two variables.
4. Write the statement of Cauchy-Schwartz inequality.
5. Define Characteristic function.
6. Define moment generating function.
7. Write the statement of central limit theorem.
8. Define strong law of large numbers.

**SECTION-B****II. Answer the following Questions****5X8=40M****9. The Probability mass function of a random variable X**

X	2	4	6	8	10	12
P(x)	3a	4a	2a	a	3a	6a

Find a) constant a      b)  $p(x < 6)$       c)  $p(4 < x < 10)$ **(OR)****10. For the following probability density function then find the constant c.**

$$f(x) = cx^2(1-x), 0 < x < 1$$

$$= 0, \text{ otherwise}$$

**11. Two fair dies are tossed. Let X denotes the number on the first die and y denotes the number on the second die then find joint probability distribution and find the following probabilities  $p(x+y = 8)$ ,  $p(x=y)$ .****(OR)****12. Explain joint conditional probability functions with simple example.****13. Define Mathematical expectation of a random variable. State and prove addition theorem of expectations for n random variables.****(OR)****[P.T.O]**



14. State and prove Chebyshev's inequality.

15. What is the effect of change of origin and scale on moment generating function.

(OR)

16. Define Cumulant generating function and state and prove any its two properties.

17. Explain weak law of large numbers and write its applications.

(OR)

18. Explain central limit theorem and give its applications.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.Sc (MPC, MCCS, CBZ)  
Subject : Chemistry  
Title of Paper : Physical And General Chemistry  
Paper Code : CBCHE201  
W.E.F : 2015-16

Max Marks : 75  
Pass Mark : 30  
Duration : 3 Hrs  
Time : 9am - 12noon  
Date : 10.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X5=25M**

1. Write a note on Raoult's law of ideal solution.
2. Give the differences between liquid crystal and solid liquid.
3. Write applications of liquid crystals.
4. Define the terms Unit cell and Lattice point.
5. Explain Enantiomers and Diastereomers with example.
6. Write any five differences between VB theory and MO theory.
7. Explain the structure of  $\text{ClF}_3$ .
8. Write a short note on E-Z configuration.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X10=50M**

9. Derive Vander – Waal's equation.

**(OR)**

10. What are liquid crystals? Write the classification of liquid crystals.
11. Give an account on Bragg's method for determination of the structure of crystals by means of x – rays.

**(OR)**

12. Explain the various defects in crystals.
13. Explain Nernst distribution law. Give any three applications of distribution law.

**(OR)**

14. What is CST? Explain Phenol – Water system.
15. Explain the following Colloidal properties  
(a) Optical property      (b) Electrical property

**(OR)**

16. Draw the MO diagrams of  $\text{O}_2$  &  $\text{CO}$ . Give its Bond order and magnetic nature.
17. Define optical isomerism. Explain the optical isomerism of Lactic acid and tartaric acid.

**(OR)**

18. Explain Cahn – Ingold – Prelog rules for R.S Configuration.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.Sc (All Groups)

Max Marks : 50

Subject : Chemistry

Pass Mark : 20

Title of Paper : Food Adulteration

Duration : 2 Hrs

Paper Code : R20SDC202

Time : 9 am - 11 am

W.E.F : 2020-21

Date : 03.05.2024

**SECTION-A**

**I. Answer any FOUR of the following Questions**

**4X5=20M**

1. Write short notes on food colours and sweetening agents.
2. Write short notes on Food preservatives.
3. How to detect adulterants in oil?
4. How to detect Sweetening agents in food?
5. Write a note on role of agmark, and I.S.I. Quality control laboratories?
6. Write a short note on duties and responsibilities of the food authority of India?
7. Write a note on flavor enhances and its harmful effects in human health.
8. Explain the methods for detection of adulterants in the Fruits and Vegetables.

**SECTION-B**

**II. Answer any THREE of the following Questions**

**3X10=30M**

9. Write a note on Different types of food adulteration.
10. How to detect adulterants in Milk?
11. Describe the highlights of Food Safety and Standards Act 2006 (FSSAI).
12. Name few cheap substitutes used in food adulteration?
13. Explain any two methods for detection of adulterants in processed food.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.Sc (MCCS , CBZ)  
Subject : Chemistry  
Title of Paper : Organic And General Chemistry  
Paper Code : R20CHE201A  
W.E.F : 2022-23

Max Marks : 60  
Pass Mark : 24  
Duration : 3 Hrs  
Time : 9am-12 noon  
Date : 10.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Explain the halogenation reaction of Alkanes.
2. Write about the conformations of cyclohexane.
3. Explain ozonolysis in Alkenes.
4. Write a note on Diel's - Alder reaction.
5. Explain the aromaticity of cyclo propenyl cation and cyclo pentadienyl anion.
6. What are protective colloids and define gold number.
7. Draw the molecular orbital diagram for CO.
8. Write a note on specific rotation.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. Write the preparation methods of Alkanes.

**(OR)**

10. Explain Bayer's strain theory.

11. Explain the mechanism of Markownikoff and Anti Markownikoff addition of HBr to Alkene.

**(OR)**

12. Explain the following reactions of Alkynes.

i) Acidity of 1 – Alkynes    ii) Hydration of Alkynes

13. Explain the mechanism of Nitration and Friedel–craft's Acylation of Benzene.

**(OR)**

14. Explain the Aromaticity of benzenoid and non benzenoid compounds.

15. Draw the MO diagram for N<sub>2</sub> and explain their bond order and magnetic property.

**(OR)**

16. Write a note on pearson's concept of HSAB.

17. Discuss the optical isomerism of Tartaric acid.

**(OR)**

18. Explain D,L - and R,S - configuration with suitable examples.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.SC(MPC,MCCS,CBZ)

Max Marks : 75

Subject : Chemistry

Pass Mark : 30

Title of Paper : Organic & General Chemistry

Duration : 3 Hrs

Paper Code : R20CHE201

Time : 9am - 12 noon

W.E.F : 2023-24

Date : 10.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X5=25M**

1. Explain free radical halogenation of alkanes.
2. Write different conformations of n-butane. Explain their relative stability.
3. Explain hydroboration reaction in alkenes.
4. State Huckel's rule.. Illustrate it with suitable examples
5. What are protective colloids and define gold number.
6. Draw the molecular orbital diagram for CO.
7. Define the terms Diastereomer and enantiomer with examples.
8. Discuss EZ configuration in alkenes.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X10=50M**

9. Explain the conformational analysis of cyclohexane with neat energy profile diagram.

**(OR)**

10. Explain Bayer's Strain Theory.

11. Explain the mechanism of Markownikoff and Anti-Markownikoff addition of HBr to alkene

**(OR)**

12. Explain the following reactions of alkynes

i) Acidity of 1-alkynes ii) Hydration of alkynes.

13. Explain the following electrophilic substitution reactions in benzene with mechanism. a) Friedel Craft alkylation b) nitration

**(OR)**

14. Define Huckel's rule and explain it in benzenoid aromatic compounds.

15. Draw the MO diagrams for N<sub>2</sub> and O<sub>2</sub>.

**(OR)**

16. Write a note on Pearson's concept of HSAB

17. Explain RS configuration with suitable examples.

**(OR)**

18. State and explain optical isomerism. Write the optical isomers of lactic acid and tartaric acid.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I B.SC(CHEMISTRY)

Max Marks : 60

Subject : Chemistry

Pass Mark : 24

Title of Paper : In Organic Chemistry

Duration : 3 Hrs

Paper Code : R23CHE202

Time : 9am-12noon

W.E.F : 2023-24

Date : 08.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Explain the preparation & structure of Phosphonitrilic compounds.
2. Write a note on preparation & structure of Borazine.
3. Write a note on structures of oxides.
4. Explain the stability of various oxidation states of 3d series
5. Write a note on comparison of lanthanides and actinides.
6. Explain Actinide contraction.
7. Write a note on Binding energy.
8. Write a note on Applications of radio activity.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. Explain the structure of diborane

**(OR)**

10. Explain Classification, Preparation & uses of Silicones.

11. Give the Preparation and Applications of Pseudo halogen compounds.

**(OR)**

12. Explain the structures of  $\text{ClF}_3$  and  $\text{BrF}_5$

13. Explain the colour formation and complexing tendency of d-block elements

**(OR)**

14. Explain the catalytic & magnetic properties of d-block elements.

15. Explain Lanthanide contraction and its consequences.

**(OR)**

16. Write a note on colour and magnetic properties of Lanthanides.

17. Explain Binding energy, types of radio activity.

**(OR)**

18. Write a note on Nuclear Reactions.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.Sc(Chemistry, Computer Science, Microbiology, Biotechnology)

Max Marks : 60

Subject : Chemistry

Pass Mark : 24

Title of Paper : General & Inorganic Chemistry

Duration : 3Hrs

Paper Code : R23CHE201/R23MCHE203

Time : 9am - 12 noon

W.E.F : 2023-24

Date : 10.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Explain Inert pair effect.
2. Write a note on Heisenberg's Uncertainty principle.
3. What is Lattice Energy? Give any two factors effecting it.
4. Describe Born-Haber Cycle.
5. Write the hybridisation and geometry of  $\text{PCl}_5$  molecule.
6. Discuss Molecular orbital theory in detail.
7. What is Hydrogen bonding? Explain with Acetic acid.
8. Define Lewis acids and bases with examples.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. Explain Bohr's theory in detail.

**(OR)**

10. Define Electron affinity and Electro negativity and write a note on its measurement methods.

11. Discuss the various factors effecting the formatin of ionic compounds.

**(OR)**

12. Explain polarisation and Sody-Fajan's rule.

13. Explain VSEPR Theory in detail and describe  $\text{NH}_3$  using it.

**(OR)**

14. Draw the Molecular orbital diagrams for  $\text{O}_2$  and  $\text{CO}$ .

15. Write a note on Band theory of metals.

**(OR)**

16. Differentiate Inter molecular and Intramolecular Hydrogen Bonding and discuss Ethanol.

17. Write a note on Arhenius Acid Base theory.

**(OR)**

18. Describe Pearson's concept and HSAB Principle.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.Sc (CBZ)

Max Marks : 60

Subject : Botany

Pass Mark : 24

Title of Paper : Basics of Vascular Plants And PhytoGeography

Duration : 3 Hrs

Paper Code : R20BOT201A

Time : 9am - 12 noon

W.E.F : 2022-23

Date : 07.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Lycopodium stem T.S.
2. Heterospory
3. Economic importance of Gnetum.
4. Geological time scale.
5. ICBN rules.
6. Binomial Nomenclature.
7. Floral characters of Annonaceae.
8. Myrmicophily

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. Describe the Pteridophyta general characters and classification.

**(OR)**

10. Stellar evolution in Pteridophytes.

11. General characters and classification of Gymnosperms.

**(OR)**

12. Write a brief account on Cycadeoidea.

13. Bentham and Hooker system of Classification.

**(OR)**

14. Description and economic importance of Cucurbitaceae.

15. Write about the floral characters and economic importance of Asteraceae.

**(OR)**

16. Write about the floral characters and economic importance of Asclepiadaceae.

17. Phytogeographical regions of World.

**(OR)**

18. Vegetation types in Andhra Pradesh



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.Sc (CBZ)  
Subject : Zoology  
Title of Paper : Biology of Chordates  
Paper Code : R20ZOO201A  
W.E.F : 2022-23

Max Marks : 60  
Pass Mark : 24  
Duration : 3 Hrs  
Time : 9 am - 12 noon  
Date : 08.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Cephalochordate
2. Dipnoi Fishes
3. Chelonia
4. Brain in Reptilia
5. Quil feather
6. Altitudinal migration
7. Structure of Tooth
8. Marsupials

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. Explain the life history of Herdmania

**(OR)**

10. Explain retrogressive metamorphosis with reference to Herdmania.

11. Describe the structure of heart of Scoliodon.

**(OR)**

12. Write an essay on migration in Fishes.

13. Write an essay on general characters of Reptilia.

**(OR)**

14. Describe the structure and functions of Heart of Calotes.

15. Write an essay on Digestive system of Pigeon.

**(OR)**

16. Write an essay on Flight adaptations in Birds.

17. Compare the characters of Metatheria and Eutheria.

**(OR)**

18. Write an essay on Dentition in Mammals.



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Regd No: 93**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)****II - SEMESTER END EXAMINATIONS**

Class : I B.SC(DS)

Max Marks : 60

Subject : Statistics

Pass Mark : 24

Title of Paper : Descriptive Statistics

Duration : 3 Hrs

Paper Code : R23DSSTAT201

Time : 9am - 12noon

W.E.F : 2023-24

Date : 07.05.2024

**SECTION-A****I. Answer any FIVE of the following Questions****5X4=20M**

1. Explain scope of statistics in different fields.
2. Explain about Sheppard's correction for moments.
3. Explain Legendre's principle of least squares.
4. Define Correlation and explain types of Correlation.
5. Explain Regression Analysis.
6. What is the difference between Correlation and Regression Analysis.
7. Explain Class and Class frequencies.
8. Define and explain Mean Square Contingency.

**SECTION-B****II. Answer ALL the following Questions****5X8=40M**

9. Explain the various methods of collecting primary data.

**(OR)**

10. Calculate the Median wage of the following distribution.

Wages (in Rs.)	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70
No. of Labourers	3	5	20	10	5

11. Derive the relation between Central and Non - Central Moments.

**(OR)**

12. Calculate the Standard Deviation for the following table giving the age distribution of 542 members.

Age in years	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70	70 - 80	80 - 90
No. of members	3	61	132	153	140	51	2

13. Explain fitting of a second degree polynomial (or) parabola of the form  $y = a + bx + cx^2$ .

**(OR)****[P.T.O]**



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14. Calculate Karl Pearson's Correlation Co efficient between X & Y for the following data

X	1	3	4	5	7	8	10
Y	2	6	8	10	14	16	20

15. Derive the equation of regression line of Y on X.

(OR)

16. Obtain the two regression equations from the following data.

X	6	2	10	4	8
Y	9	11	5	8	7

17. Define Independence of attributes and explain criteria of independence.

(OR)

18. Given  $N = 23,713$ ,  $(A) = 1618$ ,  $(B) = 2015$ ,  $(C) = 770$ ,  $(AB) = 587$ ,  $(AC) = 428$ ,  $(BC) = 335$ ,  $(ABC) = 156$ . Find the remaining class frequencies.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I B.SC(Microbiology)  
Subject : Microbiology  
Title of Paper : Bacteriology & Virology  
Paper Code : R23/MB202  
W.E.F : 2023-24

Max Marks : 60  
Pass Mark : 24  
Duration : 3 Hrs  
Time : 9am - 12 noon  
Date : 08.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Metagenomics
2. Phylogenetic Classification
3. Methanogens
4. Clostridia
5. Hierarchy of ICTV nomenclature.
6. HIV
7. Viruses in Ecosystem
8. Oncogenic Viruses

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. Describe the Ultra structure of Bacterial cell.

**(OR)**

10. Discuss about the introduction of Prokaryotic diversity and taxonomy.

11. Explain the salient features of Photosynthetic Bacteria.

**(OR)**

12. Explain the salient features of Fermentative Bacteria.

13. Explain about the discovery of viruses and their general properties.

**(OR)**

14. Give a detailed on the cultivation of Viruses.

15. Write the general features of viral replication.

**(OR)**

16. Write about the Replication of given below

(A) TMV (B) Influenza

17. What are the defective viruses? Explain about Viroids, Prions.

**(OR)**

18. Write about the applications of Biotechnology.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class	: I B.Sc(Microbiology)	Max Marks	: 60
Subject	: Microbiology	Pass Mark	: 24
Title of Paper	: Introduction To Microbiology	Duration	: 3Hrs
Paper Code	: R23MB201	Time	: 9am - 12noon
W.E.F	: 2023-24	Date	: 09.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Explain the characteristics of Archaea bacteria.
2. Discuss the vegetative reproduction in Algae.
3. Explain the cell structure of Protozoa.
4. Write about simple staining.
5. Discuss the three-domain concept Carl Woese.
6. Discuss the nutrition and habitat of Fungi.
7. Write an account of the discovery of Penicillin.
8. Discuss the silent features of Charak Samhita

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. Write an account of the golden era of Microbiology.  
(OR)
10. Discuss the major contributions of eminent scientists in the field of Microbiology?
11. Write an account of Whittaker five kingdom classification?  
(OR)
12. Discuss the Scope and applications of Microbiology?
13. Explain general characteristics and reproduction of Bacteria?  
(OR)
14. Write an account general characteristic of Viruses?
15. Explain the modes of reproduction in Bacteria?  
(OR)
16. Explain the locomotion and reproduction in Protozoa?
17. Explain the identification of Bacteria through staining?  
(OR)
18. Write an account on isolation bacteria through pure culture techniques?



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I B.Sc(Biotechnology)  
Subject : Biotechnology  
Title of Paper : Microbiology & Cell Biology  
Paper Code : R23BT202  
W.E.F : 2023-24

Max Marks : 60  
Pass Mark : 24  
Duration : 3Hrs  
Time : 9am - 12 noon  
Date : 08.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Explain the postulates of Robert Koch?
2. Write an account on the structure of TMV?
3. Discuss the structure and functions of Mitochondria?
4. Explain the chemical composition of Membrane?
5. Discuss the types of DNA damage?
6. Explain the steps of transcription?
7. Explain GPCR receptor?
8. Explain the contributions of Alexander Fleming?

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. Explain the chemical methods of sterilization?

**(OR)**

10. Describe the ultrastructure of bacteria and growth curve?

11. Write an essay on classification of bacteria based on morphology?

**(OR)**

12. Explain the general characteristics of and transmission of Viruses?

13. Write an essay mitosis and their stages?

**(OR)**

14. Explain cell cycle and its regulations?

15. Explain Cell Surface Receptors?

**(OR)**

16. Discuss the dynamic nature of the membrane by fluid mosaic model?

17. Explain Eukaryotic genomic organization?

**(OR)**

18. Give a brief account on Enzymes involved in DNA replication?



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I B.SC(Biotechnology)

Max Marks : 60

Subject : Botany

Pass Mark : 24

Title of Paper : Biomolecules & Analytical Techniques

Duration : 3 Hrs

Paper Code : R23BT201

Time : 9am - 12 noon

W.E.F : 2023-24

Date : 09.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Phospholipids
2. Saturated Fatty Acids
3. Water soluble vitamins
4. Affinity chromatography
5. Crystallography
6. Autoradiography
7. Isoelectric focusing
8. Free energy

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. What are Proteins? Explain the structural organization of Proteins.

**(OR)**

10. Define Carbohydrates. Write the classification of Carbohydrates in detail.

11. Write the Structures and functions of DNA and RNA.

**(OR)**

12. Explain the Electron Transport Chain.

13. What is Chromatography? Explain the Paper Chromatography with neat labeled diagrams.

**(OR)**

14. Write the Principles and applications of Differential Centrifugation.

15. What is Beer Lambert's law? Discuss the design and applications of UV Visible Spectrophotometer.

**(OR)**

16. What is Electrophoresis? Explain the types of Electrophoresis in detail.

17. Explain the Design, Principle and Applications of Compound Microscope

**(OR)**

18. Explain the concept of Measurement of Radioactivity and Scintillating counting.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I B.VQC(SD)  
Subject : Computer Science  
Title of Paper : Front End Web Development  
Paper Code : R23BV201  
W.E.F : 2023-24

Max Marks : 60  
Pass Mark : 24  
Duration : 3 Hrs  
Time : 9am-12 noon  
Date : 07.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. What is Web ? Explain its applications.
2. What is Hyperlink? Explain about Hyperlinks in HTML.
3. Explain about CSS structure with example.
4. What is a selector in CSS? Explain the classification of selectors in CSS.
5. Write a note on variable in Java script.
6. How to install Boot strap in our web project.
7. Write structure of DOM in Java script.
8. What is Java script? Explain its role in web development

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. Explain the structure of HTML code with an example.

**(OR)**

10. Explain briefly about text formatting tags in HTML.

11. What is CSS? In how many ways we can include CSS in our web page explain with example.

**(OR)**

12. Write a note on CSS Box Model with a example.

13. What are the data types supported by Java Script.

**(OR)**

14. What are the control statements in Java script.

15. Write a note on Boot strap Grid system.

**(OR)**

16. Write about Boot strap classes.

17. Write a note on Java script Event handling.

**(OR)**

18. Explain Form validation in Java script.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I B.Voc (Software Development)  
Subject : Computer Science  
Title of Paper : Database Management System  
Paper Code : R23BV202  
W.E.F : 2023-24

Max Marks : 60  
Pass Mark : 24  
Duration : 3 Hrs  
Time : 9am - 12noon  
Date : 08.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. What is Database Management System?
2. Explain about the Classification of DBMS.
3. Write about IS A relationship and attribute inheritance?
4. Write about the advantages of ER Model?
5. Explain about Various types of keys.
6. Explain about Commit and Rollback commands
7. Explain about aggregate functions.
8. Write the steps to create a PL/SQL program.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. Explain about the drawbacks of traditional File Processing System.

**(OR)**

10. Explain about different types of Data Models.

11. What is attribute? Explain about Classification of attribute.

**(OR)**

12. What is EER Model? Explain basic concepts of EER Model.

13. Explain about Relational Calculus in DBMS.

**(OR)**

14. What is normalization? Explain 1NF, 2NF and 3NF with examples.

15. Explain about DML Commands.

**(OR)**

16. Explain about joining database tables with example.

17. Explain about conditional control statement in PL/SQL.

**(OR)**

18. Briefly explain about triggers in PL/SQL.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I B.Sc(Data Science), BCA, B.Voc(SD)

Max Marks : 60

Subject : Computer Science

Pass Mark : 24

Title of Paper : Introduction to DataScience & R-Programming

Duration : 3Hrs

Paper Code : R23DSCSC202/R23MBCA203/R23MBV203

Time : 9AM-12noon

W.E.F : 2023-24

Date : 10.05.24

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. What is Machine Learning? Write Its Applications?
2. Explain Data Preparation and Exploration?
3. Write about Data Frames in R?
4. Write a note on Strings in R?
5. Write about CSV File?
6. Explain bar charts in R?
7. Write about Line Graphs in R?
8. Write a short note on Melting and Casting?

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. Explain in detail about Data Modeling?

**(OR)**

10. Explain about Different types of Machine Learning?

11. Explain about R - Functions?

**(OR)**

12. Explain about Vector and Its Operations?

13. Give a brief account on Excel Files?

**(OR)**

14. Explain about application of NA and Trim Options in R?

15. Explain Scatterplots in R?

**(OR)**

16. Discuss about Boxplots in R?

17. Explain Data Reshaping in R?

**(OR)**

18. How to load a Package to the Library? Explain?



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I B.Sc (MPCS,MECS,MSCS,MCCS)

Max Marks : 60

Subject : Computer Science

Pass Mark : 24

Title of Paper : Programming With Java

Duration : 3 Hrs

Paper Code : R20CSC201A

Time : 9am - 12noon

W.E.F : 2022-23

Date : 09.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Explain about Structure of Java program?
2. Explain about data types in Java?
3. How can we create a class and object in Java with an example?
4. Explain about Method Overloading?
5. Explain how Multiple Inheritances through Interface with example?
6. What is a package? How to add a class or an interface to a package.
7. What is an Applet? Write a program to display "hello java" "message"?
8. Explain procedure to create and run Applet?

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. Explain different types of Operators in Java?

**(OR)**

10. Explain features of Java?

11. Explain various Control Structure in Java?

**(OR)**

12. Explain different types of Arrays with example?

13. Explain different type of Inheritance in Java?

**(OR)**

14. Explain procedure to create user defined packages with example?

15. What is a Thread? Explain Thread Life cycle in detail?

**(OR)**

16. Explain Exception Handling in detail?

17. What is Applet? Write a program using Applet Tag.

**(OR)**

18. Explain about Life Cycle of Applet in detail?



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class	: I B.Com (Gen, TP, Log), BBA , B.Sc (MPC/CBZ)	Max Marks	: 50
Subject	: Computer Science	Pass Mark	: 20
Title of Paper	: Information And Communication Technology	Duration	: 2 Hrs
Paper Code	: R20LSC201	Time	: 9 am - 11 am
W.E.F	: 2020-21	Date	: 06.05.2024

**SECTION-A**

**I. Answer any FOUR of the following Questions**

**4X5=20M**

1. What are the applications of Internet?
2. Write about Face book.
3. Write about Google Drive.
4. Write about virtual labs.
5. Describe copy write issues.
6. Explain what's app.
7. Explain message components in email.
8. Explain about Digital signature.

**SECTION-B**

**II. Answer any THREE of the following Questions**

**3X10=30M**

9. Explain different types of web browsers.
10. Explain about fire walls.
11. Define URL and explain about components of URL.
12. Explain about advantages and disadvantages of E-mail.
13. Write the steps for creating Google Forms.



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**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.SC(MPCS, MSCS, MECS, MCCS)  
Subject : Computer Science  
Title of Paper : Programming With Java  
Paper Code : R20CSC201  
W.E.F : 2023-24

Max Marks : 75  
Pass Mark : 30  
Duration : 3 Hrs  
Time : 9am - 12 noon  
Date : 09.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X5=25M**

1. Difference between Java and 'C'.
2. Explain about Java tokens.
3. Decision Making with if statement.
4. Explain enumerated types.
5. Explain visibility controls in Java.
6. Explain Multiple inheritance.
7. Explain Building Applet code.
8. Adding Applet to HTML file.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X10=50M**

9. Explain in detail about Java features.

**(OR)**

10. Explain different types of operators in Java.

11. Explain about constructors with examples.

**(OR)**

12. Explain about methods over loading.

13. What is vector? Explain vector class methods with example.

**(OR)**

14. Explain about Java API packages.

15. What is thread? Explain thread life cycle methods with examples.

**(OR)**

16. What is Exception? How can we define user defined exception with example.

17. Explain Applet life cycle with example.

**(OR)**

18. Explain procedure to create and run Applet.



Room No: \_\_\_\_\_

Regd No: 105

**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I B.Voc (WT,IT)

Max Marks : 60

Subject : Computer Science

Pass Mark : 24

Title of Paper : Data Communications

Duration : 3 Hrs

Paper Code : R20WSDC201A/R20ITDC201A

Time : 9am - 12noon

W.E.F : 2022-23

Date : 10-05-2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Explain Data Communication and its components
2. Explain analog versus digital signals
3. Explain about Block coding
4. Explain about TDM and FDM
5. Explain efficiency and delay in Virtual Circuit Networks
6. Explain about Layered Tasks in network models
7. Explain about serial transmission modes
8. Explain three phases of Virtual Circuit Network.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. Write about Addressing in Networks

**(OR)**

10. Explain about OSI model

11. Write about periodic Analog signal

**(OR)**

12. Explain about Analog and Digital signals

13. Explain about Pulse code modulation

**(OR)**

14. Explain about Transmission modes

15. Explain Digital to analog conversion with neat diagram

**(OR)**

16. Explain about Spread Spectrum

17. Explain different types of Guided media

**(OR)**

18. Explain about wireless transmission mediums.



Regd No: \_\_\_\_\_

Room No: 106

**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**  
**II SEMESTER END EXAMINATIONS**

Class	: I B.Sc (MPC,CBZ)/B.Com(GEN,TP,LOG)/BBA	Max Marks	: 75
Subject	: Computers	Pass Mark	: 30
Title of Paper:	Computer Based Documentation	Duration	: 3 Hrs
Paper Code	: CBICF201A	Paper Time	: 9am - 12noon
W.E.F	: 2018-19	Date	: 10.05.2024

**SECTION - A**

**I. Answer any FIVE Of the following questions.**

**5X5=25M**

1. Explain Views in PowerPoint.
2. Explain Page setup in MS-WORD.
3. Explain TABLE in MS-WORD.
4. Explain Parts of MS-WORD Window.
5. How to insert new slide in PowerPoint? Explain.
6. How to insert a text and Table in PowerPoint? Explain.
7. Explain Custom Animation in PowerPoint.
8. Explain Macro.

**SECTION -B**

**II. Answer ALL the following Questions**

**5X10=50M**

9. (a) Explain procedure to create PowerPoint Presentation.

**(OR)**

(b) Explain about Slide Animation and Transitions.

10. (a) Write the features of MS-WORD.

**(OR)**

(b) Write the procedure to create HEADER and FOOTER in MS-WORD.

11. (a) Explain the Mail Merge with example.

**(OR)**

(b) Explain Different Views in MS-WORD.

12. (a) How to apply Animation effects and time into a Slide? Explain.

**(OR)**

(b) Explain steps to create sound rehearsing and recording transitions timings in a Slide.

13. (a) Explain about Links in MS-WORD.

**(OR)**

(b) Explain Graphics in MS-WORD.

\*\*\*\*\*



Regd No: \_\_\_\_\_

Room No: 107

**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II - SEMESTER END EXAMINATIONS**

Class : I BCA/I B.Sc (DS, IOT)

Max Marks : **75**

Subject : Computer Science

Pass Mark : 30

Title of Paper : Data Structures

Duration : 3 Hrs

Paper Code : R20BCA202/ R20DS201/R20IOT201

Time : 9am - 12noon

W.E.F : 2020-21

Date : 09.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X5=25M**

1. What is a Data Structure? Explain Data Structure operations.
2. Explain Bubble sort with an example.
3. Explain the concept of Insertion Sort.
4. Explain Stack and its operations.
5. Explain Polish notation with an example.
6. Explain the tower of Hanoi.
7. Draw and explain linked representation of stacks.
8. Define graph, draw different types of graphs.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X10=50M**

9. a) Explain the concept of binary search with an example.

**(OR)**

- b) Write a program to search an element using linear search.

10. a) Write a C program for Insertion Sort.

**(OR)**

- b) Explain Quick Sort with example.

11. a) Explain Stack using Arrays.

**(OR)**

- b) Explain Insertion, Deletion, Traversing and Searching in linked list.

12. a) Write a C program to implement Stack using linked list.

**(OR)**

- b) Write a C program to implement Queue using linked list.

13. a) Explain DFS algorithm with example.

**(OR)**

- b) Write an algorithm for BFS with example.



Room No: \_\_\_\_\_

Regd No: 108

**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.Voc (WT)

Max Marks : 75

Subject : Computer Science

Pass Mark : 30

Title of Paper : Data Communications

Duration : 3 Hrs

Paper Code : R20WSDC201

Time : 9 a.m - 12 noon

W.E.F : 2019-20

Date : 10.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X5=25M**

1. Define Data Communications and explain various components of Data Communications
2. Differentiate Analog Signals with Digital Signals
3. Define the terms (i) Composite Signal (ii) Bandwidth
4. Discuss about Delta Modulation
5. Write about Block Coding
6. Explain about Quadrature Amplitude Modulation
7. Describe FDM and TDM
8. Write a short note on Circuit-Switched Networks

**SECTION-B**

**II. Answer ALL the following Questions**

**5X10=50M**

9. Briefly discuss about functionalities of various layers in OSI model

**(OR)**

10. Define Topology. Explain various Topologies with their merits and demerits

11. Explain Transmission Impairment

**(OR)**

12. Explain the properties of Periodic Analog signal

13. Explain various Line Coding Schemes

**(OR)**

14. Explain different Transmission Modes

15. Explain the Process of Converting Digital Data to Analog Signal

**(OR)**

16. Write a short note on Spread Spectrum

17. Briefly discuss about Guided Transmission Media

**(OR)**

18. Write a short note on Wireless Transmission Medium



Room No: \_\_\_\_\_

Regd No 109

**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.Voc (WT)  
Subject : Computer Science  
Title of Paper : 'C' Programming  
Paper Code : R20WSCP201/WSCP201/CBCSC201  
W.E.F : 2022-23

Max Marks : 75  
Pass Mark : 30  
Duration : 3Hrs  
Time : 9am - 12 noon  
Date : 09.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X5=25M**

1. Define Variable? Explain working with variables?
2. Write about data types in C?
3. Explain about switch statement with an example program?
4. Write a short note on Recursive Functions?
5. Briefly explain advantages of Arrays?
6. Write a short note on character strings?
7. Explain operations on pointers?
8. Define File? Explain how to create a file in C?

**SECTION-B**

**II. Answer ALL the following Questions**

**5X10=50M**

9. Explain Assignment Operators with an example program?

**(OR)**

10. Explain Structure of C Program?

11. Explain Looping Statements?

**(OR)**

12. Explain working with Functions in C?

13. What is array? Explain working with Arrays?

**(OR)**

14. Explain about String Functions?

15. Explain working with Structures in C?

**(OR)**

16. Explain the differences between Pointers and Arrays?

17. Explain different file opening modes?

**(OR)**

18. Write about File Manipulating Functions?



Room No: \_\_\_\_\_

Regd No: 110

**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class	: I B.Sc(MPC,MPCS,MSCS,MECS,MCCS)	Max Marks	: 75
Subject	: Mathematics	Pass Mark	: 30
Title of Paper	: Solid Geometry	Duration	: 3 Hrs
Paper Code	: R20MAT201	Time	: 9am - 12 noon
W.E.F	: 2023-24	Date	: 07.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions** **5X5=25M**

- Find the equation of the plane passing through the point  $(1,0,-2)$  and perpendicular to the planes  $2x + y - z = 2$  and  $x - y - z = 3$ .
- Prove that the equation of the plane through the points  $(1,-2,4)$  and  $(3,-4,5)$  and parallel to x-axis is  $y + 2z = 6$ .
- Find the foot of the perpendicular from the point  $(1,2,3)$  in the plane  $x + 2y + 3z + 4 = 0$ .
- Find the equation of the line through the point  $(1,1,1)$  and intersecting the lines  $2x - y - z - 2 = 0 = x + y + z - 1$ ;  $x - y - z - 3 = 0 = 2x + 4y - z - 4$ .
- Find the equation of the spheres passing through the circle  $x^2 + y^2 = 4, z = 0$  and is intersected by the plane  $x + 2y + 2z = 0$  in circle of radius 3.
- Find the plane of contact of the point  $(3,-1,5)$  w.r.t the sphere  $x^2 + y^2 + z^2 - 2x + 4y + 6z - 11 = 0$ .
- Find the equation of the lines of intersection of the plane  $2x + y - z = 0$  and the cone  $4x^2 - y^2 + 3z^2 = 0$ .
- Find the enveloping cone of the sphere  $x^2 + y^2 + z^2 + 2x - 2y - 2 = 0$  with the vertex at  $(1,1,1)$ .

**SECTION-B**

**II. Answer ALL the following Questions** **5X10=50M**

9. A variable plane is at a constant distance  $p$  from the origin and meets the axis in A,B,C show that the locus of the centroid of the tetrahedron OABC is  $x^{-2} + y^{-2} + z^{-2} = 16p^{-2}$

(OR)

10. Find the bisecting plane of the acute angle between the planes

$$3x - 6y + 2z + 5 = 0, 4x - 12y + 3z - 3 = 0.$$

11. Prove that the lines  $\frac{x-1}{2} = \frac{y-2}{3} = \frac{z-3}{4}$ ,  $\frac{x-2}{3} = \frac{y-3}{4} = \frac{z-4}{5}$  are coplanar. Also find their point of intersection and plane containing the lines

(OR)

[P.T.O]



12. Find the image of the line  $\frac{x-1}{9} = \frac{y-2}{1} = \frac{z+3}{-3}$  in the plane  $3x - 3y + 10z - 26 = 0$ .

13. Show that the plane  $2x - 2y + z + 12 = 0$  touches the sphere

$$x^2 + y^2 + z^2 - 2x - 4y + 2z - 3 = 0 \text{ and find the point of contact.}$$

(OR)

14. show that the two circles  $x^2 + y^2 + z^2 - y + 2z = 0, x - y + z - 2 = 0; x^2 + y^2 + z^2 + x - 3y + z - 5 = 0, 2x - y + 4z - 1 = 0$  lie on the same sphere and find its equation.

15. If  $r_1, r_2$  are the radii of two orthogonal spheres then prove that the radius of the circle of their intersection is  $\frac{r_1 r_2}{\sqrt{r_1^2 + r_2^2}}$ .

(OR)

16. Find the limiting points if the coaxial system defined by spheres

$$x^2 + y^2 + z^2 + 4x - 2y + 2z + 6 = 0; x^2 + y^2 + z^2 + 2x - 4y - 2z + 6 = 0.$$

17. Find the vertex of the cone  $2x^2 + 2y^2 + 7z^2 - 10yz - 10zx + 2x + 2y + 26z - 17 = 0$ .

(OR)

18. Find the equation of the right circular cone whose vertex is  $p(2, -3, 5)$ , axis PQ whose makes equal angles with the axis and which passes through  $A(1, -2, 3)$ .



Room No: \_\_\_\_\_

Regd No: 112

**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.SC(DS, MSCS)

Max Marks : 75

Subject : Statistics

Pass Mark : 30

Title of Paper : Probability Theory & Statistics

Duration : 3 Hrs

Paper Code : R20STAT201/R20DSSTAT201

Time : 9am - 12noon

W.E.F : 2023-24

Date : 08.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X5=25M**

1. Define and explain Statistical Probability.
2. Define Random Experiment and Favourable number of cases.
3. Define Probability mass function and Probability density function.
4. Explain the types of Random Variable.
5. Define and explain the moment generating function.
6. Explain the concept of Covariance in terms of expectations.
7. Define Geometric distribution and derive its mean.
8. Define and explain Rectangular distribution.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X10=50M**

9. State and prove Bayes' theorem.

**(OR)**

10. State and prove Addition theorem and Multiplication theorem for 2 events.
11. Define and explain distribution function and mention its properties.

**(OR)**

12. Explain joint, marginal probability density functions and conditional probability function for continuous random variable.
13. State and prove Chebyshev's inequality.

**(OR)**

14. Explain Cumulant Generating function (CGF) and also explain its properties.
15. Define Binomial distribution and derive its M.G.F., Mean and Variance.

**(OR)**

16. Define Hyper Geometric Distribution and derive its mean and variance.
17. Define Normal distribution and explain its important characteristics.

**(OR)**

18. Define Exponential distribution and derive its mean and variance.



Room No: \_\_\_\_\_

Regd No: 113

**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I B.Sc (MSCS,DS)

Max Marks : 60

Subject : Statistics

Pass Mark : 24

Title of Paper : Probability Theory And Distribution

Duration : 3 Hrs

Paper Code : R20STAT201A/R20DSSTAT201A

Time : 9 am - 12 noon

W.E.F : 2022-23

Date : 08.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. State and Prove additional theorem of probability for 2 events
2. Explain about Axioms of probability
3. Define probability mass function and probability density function
4. Define Bi-variate random function
5. State and prove additional theorem on Expectation
6. Derive the mean and variance of Geometric distribution.
7. State and Prove additive property of Poisson distribution.
8. State and Prove Memory less property of Exponential distribution.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. State and prove Boole's inequality

**(OR)**

10. State and prove the Multiplication theorem of probability for n events
11. Explain about distribution function and its properties

**(OR)**

12. A random variable X has the following probability function

Find (i) k

(ii) mean and variance

X	-2	-1	0	1	2	3
P(X)	0.1	K	0.2	2K	0.3	K

13. State and prove Chebyshev's inequality

**(OR)**

14. Define Moment generating function and Explain its properties
15. Derive the mean and variance of Poisson distribution through M.G.F

**(OR)**

16. Derive the mean and variance of hyper-geometric distribution
17. Derive the mean and variance of Normal distribution

**(OR)**

18. Show that Binomial distribution tends to Normal distribution.



Room No: \_\_\_\_\_

Regd No: 114**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)****II - SEMESTER END EXAMINATIONS**

Class : I B.Voc (WT)  
 Subject : Mathematics  
 Title of Paper : Discrete Mathematics-II  
 Paper Code : R20WSDM201A  
 W.E.F : 2022-23

Max Marks : 60  
 Pass Mark : 24  
 Duration : 3 Hrs  
 Time : 9 am - 12 noon  
 Date : 07.05.2024

**SECTION-A****I. Answer any FIVE of the following Questions****5X4=20M**

1. If  $y = 5 + 3x - 2$  find the values of  $y$  corresponding to  $x = -3, -2, -1, 0, 1, 2, 3$ ?
2. Sketch the graph of  $f(x) = x^2 + x - 6$  for  $x = -3, -2, -1, 0, 1, 2, 3$ ?
3. The sum of two numbers is 28 and their different is 12 find the numbers?
4. Solve the equations  $5x + 2y = 3, 2x + 3y = -1$ ?
5. Show that  $(\mu \cap A) \cup (B \cap A) = A$
6. Evaluate  $f(A)$  for the polynomial  $f(x) = 2x^3 - 4x + 5$  where  $A = \begin{pmatrix} 1 & 2 \\ 4 & -3 \end{pmatrix}$ ?
7. Define term Lattice and sub-lattice?
8. Define Boolean algebra with examples?

**SECTION-B****II. Answer ALL the following Questions****5X8=40M**

9. Prove by mathematical induction that for all integers  $n$ ,  $1^2 + 2^2 + \dots + n^2 = \frac{n(n+1)(2n+1)}{6}$ ?

**(OR)**

10. Prove by mathematical induction that for all integers  $n$ ,  $1 + 2 + 3 + \dots + n = \frac{n(n+1)}{2}$ ?

11. Find the formula for the inverse of  $h(x) = \frac{2x-3}{5x-7}$ ?

**(OR)**

12. If  $f: A \rightarrow B$ ,  $g: B \rightarrow C$  are two bijections then prove that  $g \circ f: A \rightarrow C$  is also bijection?

13. Using Crammer rule solve the system of equations

$$2x + y + z = 3, x + y + z = 3, x - 2y - 3z = 4?$$

**(OR)**

14. Find the inverse of  $\begin{pmatrix} 1 & -2 & 2 \\ 3 & -3 & 6 \\ 1 & 1 & 7 \end{pmatrix}$  by using row operations?

**[P.T.O]**



15. If  $L$  be a lattice then  $a \wedge b = a \iff a \vee b = b$

(OR)

16. A Lattice  $(L, \leq)$  is a distributive then show that  $a(b \wedge c) = (a \vee b) \wedge (a \vee c)$  for all  $a, b, c \in L$

17. Explain about Boolean algebra with three logic gates?

(OR)

18. Verify that the preposition  $p \vee [\sim (p \wedge q)]$  is tautology?



Room No: \_\_\_\_\_

Regd No: 116**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)****II - SEMESTER END EXAMINATIONS**

Class : I B.Sc (MPC,MPCS,MECS,MSCS,MCCS)  
 Subject : Mathematics  
 Title of Paper : Solid Geometry  
 Paper Code : R20MAT201A  
 W.E.F : 2022-23

Max Marks : 60  
 Pass Mark : 24  
 Duration : 3 Hrs  
 Time : 9am-12noon  
 Date : 07.05.2024

**SECTION-A****I. Answer any FIVE of the following Questions****5X4=20M**

- Find the equation of the plane passing through the points (2,2,-1) , (3,4,2) , (7,0,6)
- Find the angle between the planes  $2x - y + z = 0$  ,  $x + y + 2z = 7$
- Find the image of the point P(1,3,4) in the plane  $2x - y + z + 3 = 0$
- Find the equation of the line through the point (1,2,4) and parallel to the line  $3x + 2y - z = 4$  ,  $x - 2y - 2z = 5$
- Find the equation of the sphere through (0,0,0) and making intercepts a,b,c on the axis
- Find the equation of the sphere passing through the circle  $x^2 + y^2 + z^2 = 4$  ,  $z = 0$  and is intersected by the plane  $x + 2y + 2z = 0$  in a circle of radius 3.
- Find the general equation of the cone whose vertex is (1,2,3) and base curve  $y^2 = 4ax$  ,  $z = 0$
- Find the equation to right circular cone whose vertex is origin, axis as the line  $x = t$  ,  $y = 2t$  ,  $z = 3t$  and whose semi-vertical angle is  $60^\circ$

**SECTION-B****II. Answer ALL the following Questions****5X8=40M**

- A variable plane is at a constant distance  $3p$  from origin meets the axes in A,B,C. Show that the locus of the triangle ABC is  $x^{-2} + y^{-2} + z^{-2} = p^{-2}$

**(OR)**

- Show that  $6x^2 + 4y^2 - 10z^2 - 11xy + 3yz + 4zx = 0$  represents a pair of planes and find the angle between them.
- A variable plane makes intercepts on the coordinate axes the sum of whose squares constant and equal to  $k^2$ . Find the locus of the foot of the perpendicular from the origin to the plane.

**(OR)**

- Find the S.D and equation of line of shortest distance between the lines

$$\frac{x-3}{3} = \frac{y-8}{-1} = \frac{z-3}{1}, \quad \frac{x+3}{-3} = \frac{y+7}{2} = \frac{z-6}{4}$$

- Show that the two circles  $x^2 + y^2 + z^2 - y + 2z = 0$  ,  $x - y + z = 2$  ,  $x^2 + y^2 + z^2 + x - 3y + z - 5 = 0$  ,  $2x - y + 4z - 1 = 0$  lie on the same sphere and find its equation.

**(OR)**

- Show that the four points (-8,5,2) , (-5,2,2) , (-7,6,6) , (-4,3,6) are concyclic

**[P.T.O]**



15. If two spheres of radius  $r_1$  and  $r_2$  cut orthogonally, show that the radius of the common circle is  $\frac{r_1 r_2}{\sqrt{r_1^2 + r_2^2}}$

(OR)

16. Find the vertex of the cone  $7x^2 + 2y^2 + 2z^2 - 10zx + 10xy + 26x - 2y + 2z - 17 = 0$

17. Prove that the equation  $\sqrt{fx} \pm \sqrt{gy} \pm \sqrt{hz} = 0$  represents a cone that touches the coordinate planes and that the equation to reciprocal cone is  $fyx + gzx + hxy = 0$

(OR)

18. Find the equation to right circular cone whose vertex is  $P=(2,-3,5)$ , axis PQ which makes equal angles with the axes and which passes through  $A=(1,-2,3)$



Room No: \_\_\_\_\_

Regd No: 118**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)****II – SEMESTER END EXAMINATIONS**

Class : I B.Sc (MSCS)

Max Marks : 75

Subject : Statistics

Pass Mark : 30

Title of Paper : Mathematical Expectation And Probability Distributions

Duration : 3 Hrs

Paper Code : CBSTT201/DSMEPD201

Time : 9am - 12 noon

W.E.F : 2016-17

Date : 08.05.2024

**SECTION-A****I. Answer any FIVE of the following Questions****5X5=25M**

1. State and prove Cauchy – Schwartz inequality.
2. A random variable X has the following probability function

Values of X = x	-2	-1	0	1	2	3
p(x)	0.1	K	0.2	2k	0.3	K

Find the value of k.

3. Derive the M.G.F. of Poisson distribution.
4. The mean of Binomial distribution is 4 and variance is 3 then find the values of n,p,q.
5. Define and explain the negative Binomial Distribution.
6. Derive the M.G.F. of Rectangular distribution.
7. Give the important properties of Normal distribution.
8. Define and explain the Cauchy distribution.

**SECTION-B****II. Answer ALL the following Questions****5X10=50M**

9. Define Characteristic function. State and prove Chebyshev's inequality.

**(OR)**

10. State and prove Addition theorem of Expectation.
11. Show that Poisson distribution as a limiting case of Binomial distribution.

**(OR)**

12. Derive the M.G.F., Mean and Variance of Binomial distribution.

13. Define Geometric distribution. Derive its M.G.F, Mean and Variance.

**(OR)**

14. Define Hyper Geometric Distribution. Show that Binomial Distribution as a limiting case of Hyper Geometric Distribution.

15. Define Exponential Distribution. Derive its M.G.F, Mean and Variance.

**(OR)**

16. Define Gamma Distribution. Derive its M.G.F and hence find Mean and Variance.

17. Define Normal Distribution and hence find its M.G.F.

**(OR)**

18. Show that a linear combination of independent normal variates is also a normal variate.



Room No: \_\_\_\_\_

Regd No: 119**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)****II - SEMESTER END EXAMINATIONS**

Class : I BCA/B.Voc (IT, WT)

Max Marks : 75

Subject : Mathematics

Pass Mark : 30

Title of Paper : Discrete Mathematics

Duration : 3 Hrs

Paper Code : R20WSDM201/WSCMAT201/ITCMAT201/CBCMAT201A

Time : 9am - 12noon

W.E.F : 2016-17

WSDM201

Date : 07.05.2024

**SECTION-A****I. Answer any FIVE of the following Questions****5X5=25M**1. If  $y = x^3 + 2x^2 - 7x - 3$ , then find the values of  $y$  corresponding to  $x = -3$  to  $3$ 2. Solve the equations  $x + y + z = 6, x - y + z = 2, 2x - y + 3z = 9$ 3. Let the functions  $f$  &  $g$  defined by  $f(x) = 2x + 1, g(x) = x^2 - 2$ Find (i)  $(gof)(4)$  (ii)  $(fog)(4)$ 4. Draw the venn diagrams of  $A \cap B^c$  and  $(A \cap B) \cup (A \cup C)$ 5. If  $\begin{vmatrix} 1 & 0 & 0 \\ 2 & 3 & 4 \\ 5 & -6 & x \end{vmatrix} = 45$ , then find the value of 'x'6. If  $u = (2, -7, 1), v = (-3, 0, 4), w = (0, 5, -8)$ , then find  $(u + v) \cdot w$  &  $\|u\|$ 

7. Define (i) Distributive Lattice and (ii) Bounded Lattice.

8. Describe the three basic logic gates

**SECTION-B****II. Answer ALL the following Questions****5X10=50M**

9. Prove by mathematical induction that for all integer 'n'

$$\frac{1}{1.4} + \frac{1}{4.7} + \frac{1}{7.10} + \dots + \frac{1}{(3n-2)(3n+1)} = \frac{n}{3n+1}$$

**(OR)**

10. Prove by mathematical induction that for all integer 'n'

$$a + ar + ar^2 + ar^3 + \dots + ar^{n-1} = \frac{a(r^n - 1)}{r - 1}$$

11. If  $f: A \rightarrow B, g: B \rightarrow C$  are onto functions, then prove that  $(gof)^{-1} = f^{-1}og^{-1}$ **(OR)**12. Find the inverse of the function (i)  $h(x) = \frac{2x-3}{5x-7}$  (ii)  $f(x) = 5^x$ 13. Find the inverse of  $\begin{pmatrix} 2 & 1 & 1 \\ 0 & 5 & -2 \\ 1 & -3 & 4 \end{pmatrix}$  by using Row operations.**[P.T.O]**



(OR)

14. Using Crammer's rule, solve the system of equations

$$2x + y + z = 3, x + y + z = 1, x - 2y - 3z = 4$$

15. Let 'L' be a lattice, then prove that  $a \wedge b = a \Leftrightarrow a \vee b = b$

(OR)

16. Prove that a lattice  $(L, \leq)$  is distributive

$$\text{i.e } \vee(b \wedge c) = (a \vee b) \wedge (a \vee c) \forall a, b, c \in L.$$

17. Find the prime implications of  $E = xyz + x^1y^1z^1 + xyz^1 + x^1y^1z + x^1yz^1$

(OR)

18. Verify whether  $p \wedge (q \wedge r) \leftrightarrow (p \wedge q) \vee (p \wedge r)$  is a tautology



Room No: \_\_\_\_\_

Regd No 121**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)****II - SEMESTER END EXAMINATIONS**

Class : I B.Sc(AI &amp; ML)

Max Marks : 60

Subject : Statistics

Pass Mark : 24

Title of Paper : Statistical methods &amp; Probability Distributions

Duration : 3Hrs

Paper Code : R23AISTAT201

Time : 9am - 12 noon

W.E.F : 2023-24

Date : 07.05.2024

**SECTION-A****I. Answer any FIVE of the following Questions****5X4=20M**

1. Define Partial Correlation.
2. Explain Scatter diagram.
3. Why we are using two regression lines.
4. Define Regression lines and its properties.
5. Define Poisson distribution.
6. Define Negative binomial distribution.
7. Define Uniform distribution
8. Explain stratified sampling.

**SECTION-B****II. Answer ALL the following Questions****5X8=40M****9. Calculate Correlation coefficient to the following data**

X	12	9	8	10	11	13	7
Y	14	8	6	9	11	12	3

**(OR)****10. Calculate rank coefficient to the following data**

statistics	1	2	3	4	5	6	7	8	9	10
Maths	1	4	2	5	3	9	7	10	6	8

**11. Fit a straight line to the following data.**

X	5	6	7	8	9	10	11
Y	2	4	5	5	3	8	7

**(OR)****[P.T.O]**



**12.** Obtain regression lines for the following data. And also estimate  $y$  when  $X=6$

X	1	2	3	4
Y	3	5	7	9

**13.** Explain Geometric distribution along with their characteristic properties.

**(OR)**

**14.** Fit Binomial distribution to the following data of a set of three coins are tossed 41 times with the following results.

No .of heads	0	1	2	3
Frequency	4	15	16	6

**15.** Explain Beta distribution along with their characteristic properties.

**(OR)**

**16.**  $X$  is normally distributed variable with mean 30 standard deviation 4 find the probability is  
 a)  $x < 40$       b)  $x > 21$       c)  $30 < X < 35$

**17.** Explain any three types of sampling technique.

**(OR)**

**18.** Explain sampling distribution with simple examples.



Room No: \_\_\_\_\_

Regd No: 123

**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**  
**II – SEMESTER END EXAMINATIONS**

Class : I B.Sc Honours (Artificial Intelligence)  
Subject : Computer Science  
Title of Paper : Python for Data Science  
Paper Code : R23AICSC202  
W.E.F : 2023-24

Max Marks : 60  
Pass Mark : 24  
Duration : 3 Hrs  
Time : 9am - 12 noon  
Date : 08.05-2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Explain about Variables and identifiers in Python.
2. Explain about break and Continue Statements.
3. Explain about packages in python.
4. Explain about Sets in Python
5. Explain about Tuples in Python.
6. Explain about Classes and Objects in Python.
7. Explain about Pandas.
8. Explain about Pandas Data Frame Basics.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. Explain about Looping Statements (For, While).

**(OR)**

10. Explain the Operations on String in Python.

11. Explain about LAMBDA Functions

**(OR)**

12. Explain about Modules in Python.

13. Explain about List and its methods in Python

**(OR)**

14. Explain about dictionary and its methods in Python.

15. Explain about Inheritance in Python.

**(OR)**

16. Explain about Error and Exception Handling.

17. Explain about Univariate plots – Histograms.

**(OR)**

18. Explain about Data frames, making changes to series and data frames



Room No: \_\_\_\_\_

Regd No: 124

**KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)**

**II – SEMESTER END EXAMINATIONS**

Class : I BBA/B.COM(TP,BBA,Business Analytics)

Max Marks : 60

Subject : Computer Science

Pass Mark : 24

Title of Paper : Problem Solving in C

Duration : 3 Hrs

Paper Code : R23MNCSC203

Time : 9am - 12 noon

W.E.F : 2023-24

Date : 09.05.2024

**SECTION-A**

**I. Answer any FIVE of the following Questions**

**5X4=20M**

1. Define Algorithm and flow chart with examples.
2. Explain about operators in 'C' language.
3. Explain about break and continue statements with example.
4. Write a program to check whether the given number is perfect or not.
5. Explain two dimensional Array with an example.
6. Write a program to find number of characters in a given string.
7. Explain recursion with an example.
8. Write a program to perform arithmetic operations using function.

**SECTION-B**

**II. Answer ALL the following Questions**

**5X8=40M**

9. Explain the structure of 'C' language with example program.

**(OR)**

10. Explain about different data types in 'C' language.

11. Explain about different if statements in 'C' language.

**(OR)**

12. Explain about different looping statements in 'C' language.

13. Explain different types of Arrays with example program.

**(OR)**

14. Write a program to perform matrix addition.

15. Explain about string functions in 'C' language.

**(OR)**

16. What is string? Explain how to declare and initialize the strings with an example program.

17. Explain different types of functions in 'C' language.

**(OR)**

18. Explain about call by reference and call by value with example program.







# KAKARAPARTI BHAVANARAYANA COLLEGE (AUTONOMOUS)

(Sponsored by S.K.P.V. Hindu High Schools' Committee)

## II SEMESTER END EXAMINATIONS (SUPPLEMENTARY) MAY 2024

01/05/2024 to 10/05/2024

DATE	TIME	B.Sc										B.Com				BBA	BCA
		MPC	MPCS	MSCS	MCS	MCSS	MCSS	MCSS	MCSS	MCSS	MCSS	MCSS	MCSS	MCSS	MCSS	MCSS	MCSS
10-05-2024	9.00 am to 11.00 am	INFORMATION AND COMMUNICATION TECHNOLOGY (2020-21)	INFORMATION AND COMMUNICATION TECHNOLOGY (2020-21)	INFORMATION AND COMMUNICATION TECHNOLOGY (2020-21)	INFORMATION AND COMMUNICATION TECHNOLOGY (2020-21)	INFORMATION AND COMMUNICATION TECHNOLOGY (2020-21)	INFORMATION AND COMMUNICATION TECHNOLOGY (2020-21)	INFORMATION AND COMMUNICATION TECHNOLOGY (2020-21)	INFORMATION AND COMMUNICATION TECHNOLOGY (2020-21)	INFORMATION AND COMMUNICATION TECHNOLOGY (2020-21)	INFORMATION AND COMMUNICATION TECHNOLOGY (2020-21)	INFORMATION AND COMMUNICATION TECHNOLOGY (2020-21)	INFORMATION AND COMMUNICATION TECHNOLOGY (2020-21)	INFORMATION AND COMMUNICATION TECHNOLOGY (2020-21)	INFORMATION AND COMMUNICATION TECHNOLOGY (2020-21)	INFORMATION AND COMMUNICATION TECHNOLOGY (2020-21)	INFORMATION AND COMMUNICATION TECHNOLOGY (2020-21)
09-05-2024	9.00 am to 11.00 am	SOLAR ENERGY (2020-21)	SOLAR ENERGY (2020-21)	SOLAR ENERGY (2020-21)	SOLAR ENERGY (2020-21)	SOLAR ENERGY (2020-21)	SOLAR ENERGY (2020-21)	SOLAR ENERGY (2020-21)	SOLAR ENERGY (2020-21)	SOLAR ENERGY (2020-21)	SOLAR ENERGY (2020-21)	SOLAR ENERGY (2020-21)	SOLAR ENERGY (2020-21)	SOLAR ENERGY (2020-21)	SOLAR ENERGY (2020-21)	SOLAR ENERGY (2020-21)	SOLAR ENERGY (2020-21)
04-05-2024	9.00 am to 12.00 noon	FOOD ADULTERATION (2020-21)	FOOD ADULTERATION (2020-21)	FOOD ADULTERATION (2020-21)	FOOD ADULTERATION (2020-21)	FOOD ADULTERATION (2020-21)	FOOD ADULTERATION (2020-21)	FOOD ADULTERATION (2020-21)	FOOD ADULTERATION (2020-21)	FOOD ADULTERATION (2020-21)	FOOD ADULTERATION (2020-21)	FOOD ADULTERATION (2020-21)	FOOD ADULTERATION (2020-21)	FOOD ADULTERATION (2020-21)	FOOD ADULTERATION (2020-21)	FOOD ADULTERATION (2020-21)	FOOD ADULTERATION (2020-21)
03-05-2024	9.00 am to 12.00 noon	A COURSE IN READING & WRITING SKILLS (2020-21)	A COURSE IN READING & WRITING SKILLS (2020-21)	A COURSE IN READING & WRITING SKILLS (2020-21)	A COURSE IN READING & WRITING SKILLS (2020-21)	A COURSE IN READING & WRITING SKILLS (2020-21)	A COURSE IN READING & WRITING SKILLS (2020-21)	A COURSE IN READING & WRITING SKILLS (2020-21)	A COURSE IN READING & WRITING SKILLS (2020-21)	A COURSE IN READING & WRITING SKILLS (2020-21)	A COURSE IN READING & WRITING SKILLS (2020-21)	A COURSE IN READING & WRITING SKILLS (2020-21)	A COURSE IN READING & WRITING SKILLS (2020-21)	A COURSE IN READING & WRITING SKILLS (2020-21)	A COURSE IN READING & WRITING SKILLS (2020-21)	A COURSE IN READING & WRITING SKILLS (2020-21)	A COURSE IN READING & WRITING SKILLS (2020-21)
06-05-2024	9.00 am to 12.00 noon	TELUGU/HINDI (2020-21)	TELUGU/HINDI (2020-21)	TELUGU/HINDI (2020-21)	TELUGU/HINDI (2020-21)	TELUGU/HINDI (2020-21)	TELUGU/HINDI (2020-21)	TELUGU/HINDI (2020-21)	TELUGU/HINDI (2020-21)	TELUGU/HINDI (2020-21)	TELUGU/HINDI (2020-21)	TELUGU/HINDI (2020-21)	TELUGU/HINDI (2020-21)	TELUGU/HINDI (2020-21)	TELUGU/HINDI (2020-21)	TELUGU/HINDI (2020-21)	TELUGU/HINDI (2020-21)
07-05-2024	9.00 am to 12.00 noon	SOLID GEOMETRY (2020-21)	SOLID GEOMETRY (2020-21)	SOLID GEOMETRY (2020-21)	SOLID GEOMETRY (2020-21)	SOLID GEOMETRY (2020-21)	SOLID GEOMETRY (2020-21)	SOLID GEOMETRY (2020-21)	SOLID GEOMETRY (2020-21)	SOLID GEOMETRY (2020-21)	SOLID GEOMETRY (2020-21)	SOLID GEOMETRY (2020-21)	SOLID GEOMETRY (2020-21)	SOLID GEOMETRY (2020-21)	SOLID GEOMETRY (2020-21)	SOLID GEOMETRY (2020-21)	SOLID GEOMETRY (2020-21)
08-05-2024	9.00 am to 12.00 noon	WAVE OPTICS (2020-21)	WAVE OPTICS (2020-21)	WAVE OPTICS (2020-21)	WAVE OPTICS (2020-21)	WAVE OPTICS (2020-21)	WAVE OPTICS (2020-21)	WAVE OPTICS (2020-21)	WAVE OPTICS (2020-21)	WAVE OPTICS (2020-21)	WAVE OPTICS (2020-21)	WAVE OPTICS (2020-21)	WAVE OPTICS (2020-21)	WAVE OPTICS (2020-21)	WAVE OPTICS (2020-21)	WAVE OPTICS (2020-21)	WAVE OPTICS (2020-21)
09-05-2024	9.00 am to 12.00 noon	PROGRAMMING WITH JAVA (2020-21)	PROGRAMMING WITH JAVA (2020-21)	PROGRAMMING WITH JAVA (2020-21)	PROGRAMMING WITH JAVA (2020-21)	PROGRAMMING WITH JAVA (2020-21)	PROGRAMMING WITH JAVA (2020-21)	PROGRAMMING WITH JAVA (2020-21)	PROGRAMMING WITH JAVA (2020-21)	PROGRAMMING WITH JAVA (2020-21)	PROGRAMMING WITH JAVA (2020-21)	PROGRAMMING WITH JAVA (2020-21)	PROGRAMMING WITH JAVA (2020-21)	PROGRAMMING WITH JAVA (2020-21)	PROGRAMMING WITH JAVA (2020-21)	PROGRAMMING WITH JAVA (2020-21)	PROGRAMMING WITH JAVA (2020-21)
10-05-2024	9.00 am to 12.00 noon	ORGANIC AND GENERAL CHEMISTRY (2020-21)	ORGANIC AND GENERAL CHEMISTRY (2020-21)	ORGANIC AND GENERAL CHEMISTRY (2020-21)	ORGANIC AND GENERAL CHEMISTRY (2020-21)	ORGANIC AND GENERAL CHEMISTRY (2020-21)	ORGANIC AND GENERAL CHEMISTRY (2020-21)	ORGANIC AND GENERAL CHEMISTRY (2020-21)	ORGANIC AND GENERAL CHEMISTRY (2020-21)	ORGANIC AND GENERAL CHEMISTRY (2020-21)	ORGANIC AND GENERAL CHEMISTRY (2020-21)	ORGANIC AND GENERAL CHEMISTRY (2020-21)	ORGANIC AND GENERAL CHEMISTRY (2020-21)	ORGANIC AND GENERAL CHEMISTRY (2020-21)	ORGANIC AND GENERAL CHEMISTRY (2020-21)	ORGANIC AND GENERAL CHEMISTRY (2020-21)	ORGANIC AND GENERAL CHEMISTRY (2020-21)

Principal

Controller of Examinations