**I semester B. Sc/BCA/ B.Sc Hon's/ II Internal Test, September 2018**

**ENGLISH LANGUAGE**

**Innovation & Practicing Language (Work Book)**

**Time: 1 hr** **MaxMarks: 15**

**I: Annotate any one of the following** **1x4=4**

1. *And mothers stood, with streaming eyes,*
   *And saw their dearest children sold;*
2. *And you, O my soul, where you stand,*
   *Surrounded, surrounded, in measureless oceans of space,*

**II: Answer any two of the following questions** **2x4=8**

1. Discuss how the poem *The Slave Auction* explores the agony of black people.
2. Critically analyze the poem *A Noiseless Patient Spider.*
3. Comment on the theme of greed and corruption explored in the story *Half a Rupee Worth* by R K Narayan.

**III: Do as Directed** **6x1/2=3**

1. Use appropriate Articles.
   a) Sindhu is _____ honest student.
   b) English is _____easiest among all the subjects.
2. Use appropriate Simple present form of verb given in the bracket.
   a) Rakshith rarely_____ to the classical music. (listen/listens)
   b) My mother and sister_____ not like coffee. (do/does)
3. Change into Present continuous tense.
   a) My friend plays cricket.
   b) Students watch the horror movie.

**I semester B. Sc/BCA/ B.Sc Hon's/ II Internal Test, September 2018**

**ENGLISH LANGUAGE**

**Innovation & Practicing Language (Work Book)**

**Time: 1 hr** **Max Marks: 15**

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   *And saw their dearest children sold;*
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**IV Semester B. Sc/BCA/ B.Sc Hon's/ I Internal Test, February 2019**

**ENGLISH LANGUAGE**

**Macbeth and Business Communication**

**Time: 1 hr** **MaxMarks: 20**

**I: Annotate any one of the following** **1x5= 5**

1. *" Fair is foul, and foul is fair:*
   *Hover through the fog and filthy air"*
2. *"There is no art*
   *To find the mind's construction in the face"*

**II: Answer any two of the following questions** **2x5=10**

1. Explain the significance of the opening scene.
2. Describe the atmosphere of the night Duncan was murdered
3. Analyse the importance of the Porter scene in the play Macbeth
4. Explain the significance of the Dagger scene.

**III: Answer any one of the following** **1x5=5**

1. Prepare a News paper report on the celebration of Science day in your college.
2. Imagine that you are as sports secretary of your college write a official report to your college Principal on conducting inter-college volley ball tournament.

**IV Semester B. Sc/BCA/ B.Sc Hon's/ I Internal Test, February 2019**

**ENGLISH LANGUAGE**

**Macbeth and Business Communication**

**Time: 1 hr** **MaxMarks: 20**

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**IV Semester B. Sc/BCA/ B.Sc Hon's/ I Internal Test, February 2019**

**ENGLISH LANGUAGE**

**Macbeth and Business Communication**

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**IV Semester B. Sc/BCA/ B.Sc Hon's/ I Internal Test, February 2019**

**ENGLISH LANGUAGE**

**Macbeth and Business Communication**

**Time: 1 hr** **MaxMarks: 20**

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**II semester B. Sc/BCA/ B.Sc Hon's/ II Internal Test, March 2020**
**ENGLISH LANGUAGE**
**Innovation and Language in Use a Work Book**

**Time: 1 hr** **Max Marks: 15**

**I. Annotate any one of the of the following:** **1X4=4**

1. *"Africa, tell me Africa Is this your back that is unbent*
   *This back that never breaks under the weight of humiliation"*
2. *"to give her gods and her daughters and daughter's daughters*
   *Basketfuls of annual flower"*

**II Answer any two of the following questions:** **2X4=8**

1. Critically appreciate the poem ***Africa***.
2. The poem ***Ecology*** is about family ties and religious beliefs. Discuss.
3. What is the significance of the title of the story ***The Eyes are not here***?
4. Why does Ramachandra Guha believes in the necessity of bilingualism in Indian context?

**III** **6X1/2=3**

**a) Change the following sentence into passive voice.**

1. Carpenters make furniture.
2. Close the door.
3. Do you speak Hindi?

**b) Change the following sentence into indirect speech.**

1. Hari said, "I am very tired"
2. I said to Ramesh, "Are you a Literature student?"
3. The officer said to attendant, "Get me a sheet of paper"

**II semester B. Sc/BCA/ B.Sc Hon's/ II Internal Test, March 2020**
**ENGLISH LANGUAGE**
**Innovation and Language in Use a Work Book**

**Time: 1 hr** **Max Marks: 15**

**I. Annotate any one of the of the following:** **1X4=4**

1. *"Africa, tell me Africa Is this your back that is unbent*
   *This back that never breaks under the weight of humiliation"*
2. *"to give her gods and her daughters and daughter's daughters*
   *Basketfuls of annual flower"*

**II Answer any two of the following questions:** **2X4=8**

1. Critically appreciate the poem ***Africa***.
2. The poem ***Ecology*** is about family ties and religious beliefs. Discuss.
3. What is the significance of the title of the story ***The Eyes are not here***?
4. Why does Ramachandra Guha believes in the necessity of bilingualism in Indian context?

**III** **6X1/2=3**

**c) Change the following sentence into passive voice.**

4. Carpenters make furniture.
5. Close the door.
6. Do you speak Hindi?

**d) Change the following sentence into indirect speech.**

4. Hari said, "I am very tired"
5. I said to Ramesh, "Are you a Literature student?"
6. The officer said to attendant, "Get me a sheet of paper"

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**IV Semester B. Sc/BCA/ B.Sc Hon's/ II Internal Test, September 2021**
**ENGLISH LANGUAGE**
**OTHELLO AND PRACTISING COMMUNICATION SKILLS**

**Time: 1 hr** **Max Marks: 20**

**I: Annotate any one of the following** **1x5= 5**

1. *" She did deceive her father, marrying you;*
   *And when she seem'd to shake and fear your looks She loved them most"*
2. *"And his unkindness may defeat my life But never taint my love"*
3. *"Yet she must die, else she'll betray more men. Put out the light, and then put out the light"*
4. *"Moor, she was chaste, she loved thee, cruel Moor"*

**II: Answer any two of the following questions** **2x5=10**

1. Discuss the dramatic significance of **the Hand Kerchief Scene** in the play ***Othello***?
2. How does *Iago* influence *Ohello* in the Temptation (Act III, Scene 3) scene in the play ***Othello***?
3. Write a short note on **the murder scene** in the play ***Othello***.
4. Sketch the character of ***Othello***.

**III: Answer any one the following** **1x5=5**

1. You are the sports secretary of your college. Write a general enquire e-mail letter to sportsindia@gmail.com regarding sports equipments available in their shop.
2. As the Principal of Sahyadri Science College, Shivamogga, write an e-mail to gangarambooks@gmail.com about the damaged books that have been supplied to the college.

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**IV Semester B. Sc/BCA/ B.Sc Hon's/ II Internal Test, September 2021**
**ENGLISH LANGUAGE**
**OTHELLO AND PRACTISING COMMUNICATION SKILLS**

**Time: 1 hr** **Max Marks: 20**

**I: Annotate any one of the following** **1x5= 5**

1. *" She did deceive her father, marrying you;*
   *And when she seem'd to shake and fear your looks She loved them most"*
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**III: Answer any one the following** **1x5=5**

1. You are the sports secretary of your college. Write a general enquire e-mail letter to sportsindia@gmail.com regarding sports equipments available in their shop.
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First Semester B. Sc.,/BCA II Internal Test, February-2022
ENGLISH LANGUAGE
Aspirations and Practising Language

Time: 1 Hour Max. Marks: 20

**I Annotate the following:** 1X3=03

1. *"Is never, NEVER,NEVER let*
   *Them near your television set-*
   *Or better still, just don't install*
   *The idiotic thing at all.*

**II Select the most appropriate answer from the options provided:** 2X1=02

1. ____ was a Co-founder of Apple Inc.
   a) Narendra Modi b) Steven. P. Jobs c) Narayana Murthy d) Ananda Mahindra
2. Adichie delivered her speech at _____ located in Massachusetts.
   a) Wellesley college b) Boston college c) Stonehill college d) Massachusetts city college

**III Answer any Two of the following questions in a page and half each:** 2X5=10

1. Write a critical summary of the poem *On Television* by Roald Dahl.
2. Summarize the arguments of Albert Einstein regarding Life and other issues of the society from his essay *The World As I see It.*
3. Explain briefly Adichie's suggestions to the young graduates for overcoming gender discrimination.
4. Write a note on contribution of Steven. P. Jobs to the development of Apple Inc.

**IV Do as directed:** 5X1=05

1. Remember what I have told you. I hope you don't _____ my words.
   (Replace the underlined word with suitable antonym).
2. Radha sings a song. (change into simple past tense)
3. Students wrote the exam. (change into present progressive tense)
4. My father goes to Bengaluru. (change into present perfect tense)
5. Today train arrive on time here. ( Correct the sentence)

*-*-*-*

First Semester B. Sc.,/BCA II Internal Test, February-2022
ENGLISH LANGUAGE
Aspirations and Practising Language

Time: 1 Hour Max. Marks: 20

**I Annotate the following:** 1X3=03

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   *Them near your television set-*
   *Or better still, just don't install*
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**IV Do as directed:** 5X1=05

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## ಮೊದಲನೇ ಕಿರು ಪರೀಕ್ಷೆ– ೨೦೧೯
## ಬಿಎಸ್ಸಿ. ಮೊದಲನೇ ಸೆಮ್ ಕನ್ನಡ ಭಾಷಾ ಪತ್ರಿಕೆ –೧

ಸಮಯ : ೬೦ ನಿಮಿಷ ಅಂಕಗಳು – ೨೦

**ಯಾವುದಾದರೂ ಎರಡಕ್ಕೆ ಉತ್ತರಿಸಿ** ೨*೫=೧೦

೧. ಕನ್ನಡ ಭಾಷೆಯ ಪ್ರಾಚೀನತೆಯನ್ನು ವಿವರಿಸಿ
೨. ಒಂದು ಮಾದರಿ ಆಭ್ಯರ್ಥನ ಪತ್ರ ಬರೆಯಿರಿ
೩. ಕನ್ನಡ ಪತ್ರಿಕೆಗಳ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ
೪. ಆಲಿಸುವ ಕೌಶಲಗಳನ್ನು ವಿವರಿಸಿ

**ಯಾವುದಾದರೂ ಎರಡಕ್ಕೆ ಉತ್ತರಿಸಿ** ೨*೫=೧೦

೧. ಆಸೆಯ ಬಗ್ಗೆ ಲಕ್ಕಮ್ಮನ ಅಭಿಪ್ರಾಯಗಳೇನು
೨. ಜಲಗಾರ ಪಠ್ಯದ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ರೈತನ ಮಹತ್ವವನ್ನು ವಿಶ್ಲೇಷಿಸಿ
೩. ಅಕ್ಕಮಹದೇವಿಯ ವಚನಗಳಲ್ಲಿ ಪ್ರಕೃತಿ ಚಿತ್ರಣ
೪. 'ಪ್ರಕೃತಿಯೇ ದೇವರು' ಎಂಬುದು ಗರತಿಯ ಹಾಡಿನಲ್ಲಿ ವ್ಯಕ್ತಗೊಂಡ ಬಗೆ

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## ಮೊದಲನೇ ಕಿರು ಪರೀಕ್ಷೆ– ೨೦೧೯
## ಬಿಎಸ್ಸಿ.(ಆನರ್ಸ್) ಬಿಸಿಎ ಮೂರನೇ ಸೆಮ್ ಕನ್ನಡ ಭಾಷಾ ಪತ್ರಿಕೆ –೩

ಸಮಯ : ೬೦ ನಿಮಿಷ ಅಂಕಗಳು – ೨೦

**ಯಾವುದಾದರೂ ಒಂದಕ್ಕೆ ಉತ್ತರಿಸಿ** ೧*೧೦=೧೦

೧. ಕೊನೆಯ ಗಿರಾಕಿ ಕಥೆಯ ಕಾಣಿಯ ದುರಂತ ಬದುಕನ್ನು ಚಿತ್ರಿಸಿ
೨. ಸ್ಮಶಾನ ಕುರುಕ್ಷೇತ್ರ ನಾಟಕದ ಯುದ್ಧ ವಿರೋಧಿ ಆಶಯಗಳನ್ನು ಗುರುತಿಸಿ

**ಯಾವುದಾದರೂ ಎರಡಕ್ಕೆ ಉತ್ತರಿಸಿ** ೨*೫=೧೦

೧. ಕುಮಾರವ್ಯಾಸನ ಪದ್ಯಭಾಗದಲ್ಲಿ ಬರುವ ವಿದುರ ನೀತಿ
೨. ಹಸಿವೆಂಬ ಹೆಬ್ಬಾವಿನಲ್ಲಿ ಕಾಣುವ ಹಸಿವಿನ ಮಹತ್ವ
೩. 'ಮಕ್ಕಳ ಮಾರ್ಯಾರ ಮಳೆರಾಜ' ಪದ್ಯಭಾಗದಲ್ಲಿ ವ್ಯಕ್ತವಾದ ಬರಗಾಲದ ಭೀಕರತೆ
೪. ಚಂದಿರನ ಕಂಡ ಸಡಗರ ಸಂಭ್ರಮ ಕುರಿತು ಬರೆಯಿರಿ.

## ಮೊದಲನೇ ಕಿರು ಪರೀಕ್ಷೆ– ೨೦೧೯
## ಬಿಬಿಎ ಮೂರನೇ ಸೆಮ್ ಕನ್ನಡ ಭಾಷಾ ಪತ್ರಿಕೆ –೩

ಸಮಯ : ೬೦ ನಿಮಿಷ ಅಂಕಗಳು – ೨೦

**ಯಾವುದಾದರೂ ಒಂದಕ್ಕೆ ಉತ್ತರಿಸಿ** ೧*೧೦=೧೦

೧. ಸಂಸ್ಕೃತಿ ಎಂದರೇನು? ವಿವಿಧ ವ್ಯಾಖ್ಯಾನಗಳೊಂದಿಗೆ ವಿವರಿಸಿ
೨. ಕರ್ನಾಟಕದ ಸಾಮಾಜಿಕ ವ್ಯವಸ್ಥೆಯ ಚರಿತ್ರೆಯನ್ನು ಗುರುತಿಸಿ

**ಯಾವುದಾದರೂ ಒಂದಕ್ಕೆ ಉತ್ತರಿಸಿ** ೧*೧೦=೧೦

೧. ಚನ್ನಯ್ಯನ ಗುಪ್ತ ಭಕ್ತಿಯ ಸ್ವರೂಪವನ್ನು ಪದ್ಯದ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ವಿವರಿಸಿ
೨. ಸರಸದ ಮಾತು ವಿರಸವಾದ ಬಗೆಯನ್ನು ವಿಶ್ಲೇಷಿಸಿ

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## ಮೊದಲನೇ ಕಿರು ಪರೀಕ್ಷೆ– ೨೦೨೦

### ಬಿಎಸ್ಸಿ.(ಆನರ್ಸ್) ಬಿಸಿಎ ಮೊದಲನೇ ಸೆಮ್ ಕನ್ನಡ ಭಾಷಾ ಪತ್ರಿಕೆ –೧

ಸಮಯ : ೬೦ ನಿಮಿಷ ಅಂಕಗಳು – ೨೦

ಯಾವುದಾದರೂ ನಾಲ್ಕಕ್ಕೆ ಉತ್ತರಿಸಿ ೪*೫=೨೦

೫. ಗರತಿಯ ಹಾಡು ಪದ್ಯಭಾಗದ ಸಾರಾಂಶ ಬರೆಯಿರಿ

೬. ಚನ್ನಮಲ್ಲಿಕಾರ್ಜುನನ ಬಗೆಗೆ ಅಕ್ಕನ ಹಂಬಲ

೭. ಶಿಕ್ಷಣದ ಮಹತ್ವವನ್ನು ಅಗ್ನಿಭೂತಿ ವಾಯುಭೂತಿ ಕಥೆಯ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ವಿವರಿಸಿ.

೮. ಆಯ್ದಕ್ಕಿ ಲಕ್ಕಮ್ಮನ ವಚನಗಳಲ್ಲಿ ವ್ಯಕ್ತವಾಗಿರುವ ಮೌಲ್ಯಗಳ ಮಹತ್ವ

೯. ಮುಂಬೈ ನಗರದ ಯಾಂತ್ರಿಕ ಜೀವನವನ್ನು ಪದ್ಯದ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ಚಿತ್ರಿಸಿ

೧೦.ದೇವರು ರುಜು ಮಾಡಿದನು ಪದ್ಯದಲ್ಲಿ ವ್ಯಕ್ತವಾಗಿರುವ ನಿಸರ್ಗದ ವೈಶಿಷ್ಟ್ಯ

೧೧ಶಿವಗುಡಿಯ ಜಾತ್ರೆಯ ಬಗ್ಗೆ ಜಲಗಾರನ ಅಭಿಪ್ರಾಯಗಳೇನು?

## ಮೊದಲನೇ ಕಿರು ಪರೀಕ್ಷೆ– ೨೦೨೧

### ಬಿಎಸ್ಸಿ. ಮೊದಲನೇ ಸೆಮ್ ಕನ್ನಡ ಭಾಷಾ ಪತ್ರಿಕೆ –೧

ಸಮಯ : ೬೦ ನಿಮಿಷ ಅಂಕಗಳು – ೨೦

ಯಾವುದಾದರೂ ನಾಲ್ಕು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ ೪*೫=೨೦

೧. ಜನಪದ ಕಾವ್ಯದಲ್ಲಿ ವ್ಯಕ್ತವಾದ ಪ್ರಕೃತಿ ಪ್ರಜ್ಞೆ

೨. ಪುಷ್ಪೋಧ್ಯಾನ ಕಾವ್ಯದಲ್ಲಿ ಕಂಡುಬರುವ ಮಾವಿನ ಮರದ ವರ್ಣನೆ

೩. ಜಲಗಾರ ಮತ್ತು ರೈತನ ಸಂಭಾಷಣೆಯ ವೈಶಿಷ್ಟ್ಯ

೪. ಆಯ್ದಕ್ಕಿ ಲಕ್ಕಮ್ಮನ ದೃಷ್ಟಿಯಲ್ಲಿ ಭಕ್ತನ ಲಕ್ಷಣಗಳು

೫. ಕನ್ನಡ ಭಾಷೆಯ ಪ್ರಾಚೀನತೆಯನ್ನು ಗುರುತಿಸಿ

೬. ಉತ್ತಮ ಕೇಳುಗನ ಗುಣಗಳು

೭. ಕನ್ನಡ ಭಾಷೆ ಮತ್ತು ಪತ್ರಿಕೆಗಳು

ಕನ್ನಡ ವಿಭಾಗ

ಸಹ್ಯಾದ್ರಿ ವಿಜ್ಞಾನ ಕಾಲೇಜು, ಶಿವಮೊಗ್ಗ

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### ಪ್ರಥಮ ಸೆಮ್ ಬಿಎಸ್ಸಿ ಎರಡನೇ ಕಿರುಪರೀಕ್ಷೆ–೨೦೨೨

ಅಂಕಗಳು : ೨೦ ಸಮಯ : ೧ ಗಂಟೆ

ಯಾವುದಾದರೂ ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ ೨*೧೦=೨೦

೧. ವಿದ್ಯಾರ್ಥಿಗಳಿಗೇಕೆ ಸಾಹಿತ್ಯ ?– ಕುವೆಂಪು ಅವರ ವಿಚಾರಗಳನ್ನು ಬರೆಯಿರಿ

೨. 'ಹಚ್ಚೇವು ಕನ್ನಡದ ದೀಪ' ಕವನದ ಕನ್ನಡಾಭಿಮಾನವನ್ನು ಚರ್ಚಿಸಿ

೩. ದೇವರನ್ನು ಕುರಿತು ಕಾರಂತರ ನಿಲುವನ್ನು ಪಠ್ಯದ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ವಿಶ್ಲೇಷಿಸಿ

೪. ವೈಜ್ಞಾನಿಕ ಮನೋಭಾವದ ಅಗತ್ಯ ಮತ್ತು ಪ್ರಯೋಜನಗಳನ್ನು ವಿವರಿಸಿ

ಕನ್ನಡ ವಿಭಾಗ

ಸಹ್ಯಾದ್ರಿ ವಿಜ್ಞಾನ ಕಾಲೇಜು, ಶಿವಮೊಗ್ಗ

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ತೃತೀಯ ಸೆಮ್ ಬಿಎಸ್ಸಿ/ಬಿಸಿಎ ಎರಡನೇ ಕಿರುಪರೀಕ್ಷೆ–೨೦೨೨

ಅಂಕಗಳು : ೨೦ ಸಮಯ : ೧ ಗಂಟೆ

ಯಾವುದಾದರೂ ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ ೨*೧೦=೨೦

೧. ಅಮೃತಮತಿಯು ಮಾವುತನಲ್ಲಿ ಅನುರುಕ್ತಳಾದ ಬಗೆಯನ್ನು ವಿವರಿಸಿ

೨. ಪ್ರೀತಿಯ ಪೂರ್ಣತೆಯಲ್ಲಿ ಚಿತ್ರಿತವಾಗರುವ ಪ್ರೀತಿಯ ಸ್ವರೂಪ ಮತ್ತು ಮಹತ್ವವನ್ನು ಬರೆಯಿರಿ

೩. ಆಧುನಿತೆಯು ಹಳ್ಳಿಗಳಲ್ಲಿ ಉಂಟುಮಾಡಿದ ಬದಲಾವಣೆ ಮತ್ತು ಅದರ ಪರಿಣಾಮಗಳನ್ನು ವಿವರಿಸಿ

೪. ವೈಜ್ಞಾನಿಕ ಮನೋಭಾವ ಎಂದರೇನು? ಅದರ ಅಗತ್ಯಗಳನ್ನು ವಿವೇಚಿಸಿ

ಕನ್ನಡ ವಿಭಾಗ

ಸಹ್ಯಾದ್ರಿ ವಿಜ್ಞಾನ ಕಾಲೇಜು, ಶಿವಮೊಗ್ಗ

ಪ್ರಥಮ ಬಿಸಿಎ ಮೊದಲ ಕಿರು ಪರೀಕ್ಷೆ, 21 ನವಂಬರ್ 2022

ಸಮಯ:01 ಅಂಕಗಳು:10

ಯಾವುದಾದರೂ ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ 2*5=10

1. ಶ್ರೀ ವಿಜಯ ಹೇಳಿರುವ ಕನ್ನಡ ನಾಡು ನುಡಿಯ ವಿಶೇಷತೆಗಳೇನು? ವಿಶ್ಲೇಷಿಸಿ
2. ಕನ್ನಡ ನಾಡಿನ ವೈಭವವನ್ನು ಉದಯವಾಗಲಿ ನಮ್ಮ ಚೆಲುವ ಕನ್ನಡ ನಾಡು ಪದ್ಯದ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ವಿವರಿಸಿ
3. ಆಕಾಶಬುಟ್ಟಿಯ ಕವಿತೆಯ ಆಶಯವೇನು? ವಿಶ್ಲೇಷಿಸಿ
4. ದ.ರಾ.ಬೇಂದ್ರಯವರ ಕವಿ–ಕಾವ್ಯ ಪರಿಚಯದೊಂದಿಗೆ ರಾಗರತಿ ಕವನದ ಸಂದೇಶವೇನು ? ವಿವರಿಸಿ

ಕನ್ನಡ ವಿಭಾಗ

ಸಹ್ಯಾದ್ರಿ ವಿಜ್ಞಾನ ಕಾಲೇಜು, ಶಿವಮೊಗ್ಗ

ಪ್ರಥಮ ಬಿಎಸ್.ಸಿ ಮೊದಲ ಕಿರು ಪರೀಕ್ಷೆ, 21 ನವಂಬರ್ 2022

ಸಮಯ:01 ಅಂಕಗಳು:10

ಯಾವುದಾದರೂ ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ 2*5=10

1. ಶ್ರೀ ವಿಜಯ ಹೇಳಿರುವ ಕನ್ನಡ ನಾಡು ನುಡಿಯ ವಿಶೇಷತೆಗಳೇನು? ವಿಶ್ಲೇಷಿಸಿ
2. ವಿದ್ಯಾರ್ಥಿಗಳ ಅಶಿಸ್ತಿಗೆ ಕಾರಣಗಳೇನು ? ಅದಕ್ಕಿರುವ ಪರಿಹಾರಗಳೇನು ಎಂಬುದನ್ನು ವಿದ್ಯಾರ್ಥಿಗಳಿಗೇಕೆ ಸಾಹಿತ್ಯ ಪಠ್ಯದ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ಚರ್ಚಿಸಿ
3. ಗ್ರಾಮೀಣ ಕೃಷಿ ಅನುಭವವನ್ನು ಹೊಲಬಿತ್ತಿ ಬರುವಾಗ ಜನಪದ ಕಾವ್ಯದಲ್ಲಿ ಅಭಿವ್ಯಕ್ತಿಸಿರುವ ಬಗೆಯನ್ನು ವರ್ಣಿಸಿ.
4. ಯಾವ ಕಾಲದ ಶಾಸ್ತ್ರವೇನು ಹೇಳಿದರೇನು? ಪದ್ಯದ ಸಂದೇಶವೇನು ವಿವರಿಸಿ.
5. ಜ್ಯೋತಿಷ ಅರ್ಥಪೂರ್ಣವೋ, ಅರ್ಥರಹಿತವೋ ? ಪಠ್ಯದ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ಚರ್ಚಿಸಿ
6. ಕಾಣದಂತೆ ಮಾಯವಾದನೋ ಗೀತೆಯನ್ನು ಕುರಿತು ವಿಮರ್ಶೆ ಬರೆಯಿರಿ

PRINCIPAL
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(Constituent College of Kuvempu University)
SHIMOGA, Karnataka State.

ಕನ್ನಡ ವಿಭಾಗ

ಸಹ್ಯಾದ್ರಿ ವಿಜ್ಞಾನ ಕಾಲೇಜು, ಶಿವಮೊಗ್ಗ

ದ್ವಿತೀಯ ಬಿಎಸ್.ಸಿ/ಬಿಸಿಎ ಮೊದಲ ಕಿರು ಪರೀಕ್ಷೆ, 22 ಆಗಸ್ಟ್ 2022

**ಸಮಯ:01** **ಅಂಕಗಳು:20**

**ಯಾವುದಾದರೂ ನಾಲ್ಕು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ** **4*5=20**

1. ಜ್ಯೋತಿಷ ಅರ್ಥಪೂರ್ಣವೋ ಅರ್ಥರಹಿತವೋ –ಪಠ್ಯದ ಹಿನ್ನಲೆಯಲ್ಲಿ ಚರ್ಚಿಸಿ.
2. ನೆನಪು–ಮರೆವು ಲೇಖನದ ವಿಚಾರಗಳನ್ನು ಸ್ಪಷ್ಟಪಡಿಸಿ.
3. ಅವ್ವನ ನೆನಪು 'ಅವ್ವ' ಕವಿತೆಯಲ್ಲಿ ಹೇಗೆ ಚಿತ್ರಿತವಾಗಿದೆ ?
4. 'ಎಲ್ಲ ಮರೆತಿರುವಾಗ' ಕವನದಲ್ಲಿ ಬರುವ ಬದುಕಿನ ಮಹತ್ವವನ್ನು ವಿವರಿಸಿ.
5. 'ಅನ್ನಯಜ್ಞ' ಕವನದ ಆಶಯವನ್ನು ಕುರಿತು ಬರೆಯಿರಿ.
6. ಪ್ರೀತಿಯ ಶ್ರೇಷ್ಠತೆ 'ಬಡವನಾದರೇನು ಪ್ರಿಯೆ' ಕವಿತೆಯಲ್ಲಿ ಹೇಗೆ ಮೂಡಿಬಂದಿದೆ ?
7. ಹೆಣದ ಮೇಲಿನ ದುಡ್ಡು ಮತ್ತು ಮದುವೆಯ ಊಟ ಲೇಖನದ ಸ್ವಾರಸ್ಯವನ್ನು ವಿವರಿಸಿ.

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SAHYADRI SCIENCE COLLEGE,SHIVAMOGGA

1st Internal Exam, Bsc 3rd sem, Aug--2019

Sub: HINDI

Time: 1 hour Max marks:20

I.किन्हीं दो की सप्रसंग व्याख्या लिखिए। 5X2=10

1.तुम्हारी उंगली तो रसपिरिया बजाते बजाते टेढी हुई है, है न....

2. मेरे पैसे क्या हराम के थे,वह भी तो पेशगी से ही है, ला निकाल जल्दी इस दुयियां को ।

3.मिस्टर राय बिल्कुल सहयोग नहीं दे रहे हैं ।कोई फाइल मेरे सामने नहीं आते।

III. हिंदी में अनुवाद कीजिये: 10

प्रकृति और मानव के बीच अनादिकाल से स्वस्थ सम्बंध बना हुआ है। मानव हमेशा प्रकृती में ही भगवान के दर्शन करता आया है। अगर हम प्रकृती की रक्षा करते हैं तो हमें उसकी कृपा अवश्य मिलेगी। प्राकृतिक सम्पत्ती का सही उपयोग करना हम सबका कर्तव्य है। प्रकृती का विनाश मानव का विनाश है। नैसर्गिक़ संपत्ती को आगे की पीढियों के लिये सुरक्षित रखना हम सबकी ज़िम्मेदारी है।

SAHYADRI SCIENCE COLLEGE,SHIVAMOGGA

1st Internal Exam, Bsc 3rd sem, Aug--2019

Sahyadri Science College Shimoga.
I Internal Exam, BA/Bsc II Sem, Feb - 2020
Sub: Hindi

Time : 1 hr. Max. Marks - 20

I किन्हीं दो की सप्रसंग व्याख्या लिखिए। 2x5 -10

1. कबीर सतगुरु सवां न को सगा, सोधी सई न दाति ।
हरिजी सवां न को हितू, हरिजन सई न जाति ॥

2. कबीर सतगुरु की महिमा अनंत, अनंत किया उपगार ।
लोचन अनंत उघाडिया, अनंत दिखावणहार ॥

3. कबीर सतगुरु सांचा सूरिवां, सबद जु बाह्या एक ।
लागत ही भैं मिलि गया, पड्या कलेजै छेक ॥

II. किसी एक कविता का सारांश लिखकर उसकी विशेषताएँ बताइए । 1x10 = 10

1. उनको प्रणाम 2. उनका नाम और उसके कार्य
3. बादल को घिरते देखा है ।

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SAHYADRI Science College Shimoga
I Internal Exam
BCA IV Sem, Feb-2020 Sub: Hindi

Time: 1 hr. Max Marks: 20

I निम्नलिखित एकांकियों की कथावस्तु लिखकर उनकी विशेषताएँ लिखिए (हिन्दी में) 5×2=10

a. मीना कहाँ है? b. महाभारत की एक सांझ
c. रास्ता बंद है। 5×1=05

II. इन अर्थों को हिंदी में लिखिए।
1. Cash 2. Account 3. Foreign Policy
4. production 5. Income tax 5×1=05

III कन्नड/अंग्रेज़ी में अनुवाद कीजिए 5×1=05
1. योग्यता 2. दलाल 3. जमा 4. स्वीकृति
5. ऋण

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Sahyadri Science College Shivamogga
III Internal Test. BSc - 1 Sem.
Time - 1 hr. Sub: Hindi

निम्नलिखित प्रश्नों में से किन्हीं दो उत्तर लिखिए। 10×2=2

1) भारतीय संस्कृति में निबंधकार का विचार व्यक्त कीजिए।
2) घृणा के बारे में प्रेमचंद का राय लिखिए।
3) रज़िया पात्र का चरित्र चित्रण लिखिए।
4) हिन्दी वर्णमाला लिखकर स्वर और व्यंजन भेद परिभाषा एवं प्रकारों को उदाहरण सहित लिखिए।

Raj-an
Sahyadri
Constituent College of
SHIMOGA, Karnataka State

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कुवेंपु महाविद्यालय
सह्याद्रि विज्ञान कालेज, शिवमोगा
हिन्दी विभाग
2021
प्रथम आंतरिक परिक्षा
बी.एससी और बीसीए - द्वितीय सत्र

I किन्ही दो प्रश्न का उत्तर लिखिऐ 10×2 = 20

1) भुवनेश्वर प्रसाद मिश्र विरचित एकांकी "ताँबे के कीड़े" का कथासार संक्षिप्त में लिखिए?

2) "दो कलाकार" एकांकी का कथासार लिखिए?

3) सरकारी पत्र लिखिए?

4) "राजरानी सीता" एकांकी का सारांश लिखिए?

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ಸಹ್ಯಾದ್ರಿ ವಿಜ್ಞಾನ ಕಾಲೇಜು ಶಿವಮೊಗ್ಗ
ವಿಜ್ಞಾನ ವಿಂಭಾಗ ವಲಯ
ವಿಷಯ : ಸಂಖ್ಯೆ BCA II Sem - 2021
Time : 1 hr. Max. Marks - 20

(सप्रसंग व्याख्या)

1. निम्नलिखित प्रश्नों में से किन्हीं दो के उत्तर लिखिए 2×5 = 10

1. बडका तुम्हारी बडी तारीफ कर रहा था। कह रहा था, मोहन बडा दिमागी होगा।

2. राजपूत टोली के लोग हंसते हंसते पागल हो रहे हैं। कहते हैं कान पकडवाए पंचौली के सामने पाँच बार उठो बैठो तुरन्त जलने लगेगा।

3. दौरा पड गया है, काल रात से हो अब कौन देखे सन्तू को। वही सरान आदत है इसकी.

II किसी एक प्रश्न का उत्तर लिखिए 1×10 = 10

1. पौरसभा कहानी की कथावस्तु लिखिए।

2. अनुवाद के प्रकारों को विस्तृत रूप से लिखिए।

3. अनुवाद प्रक्रिया को विस्तार से समझाइए।

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SHIMOGA, Karnataka State

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**KUVEMPU UNIVERSITY**
**SAHYADRI SCIENCE COLLEGE (AUTONOMOUS), SHIMOGA – 577 203**
**DEPARTMENT OF CHEMISTRY**
**III BSc V semester - Paper VI**

**Date : 01/09/2014** **Maximum = 20 marks**
**Duration : 1 Hour**

Note : PART A answers should be written in first two pages

**Part A : Answer any 4 of the following questions** **4 X 1 = 4 Marks**

1. Define specific conductance.
2. Write an equation, which relates equivalent conductance and specific conductance.
3. Write the structure of hexamethylcyclotrisilane.
4. What are oligosaccharides?
5. What are reducing sugars?

**Part B : Answer any 4 of the following questions** **4 X 4 = 16 Marks**

6. Explain the determination of equivalent conductance of weak electrolyte at infinite dilution by Kohlrausch's law.
7. Explain the effect of dilution on equivalent conductance, molar conductance and specific conductance.
8. a. Discuss the properties of silicones. 2M
   b. Explain the preparation of Teflon. 2M
9. Discuss the open chain structure of D glucose
   **Or** Explain, how D-glucose is converted to D-fructose
10. Explain ring structure of fructose
    **Or** Describe the Killiani synthesis with an example.

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**I B. Sc. I Semester I Internal Assessment Test**

**Chemistry Paper I**

**Date: 08/08/2018** **Duration: 1 Hour** **Total: 20 Marks**

**I. Answer any FOUR the following questions:** **4 X 1 = 4 Marks**

1. Explain the significance of $\Psi$ and $\Psi^2$.
2. Define hydrogen bonding with an example.
3. What is meant by primary standard solutions?
4. Explain the types of bonds present in ethylene molecule.
5. de Broglie wave equation is applicable for i) small particles ii)large particles iii) Medium particle iv) Unknown particle

**II. Answer any FOUR the following questions:** **4 X 4 = 16 Marks**

6. a) Derive de Broglie wave equation. **3M**
   b) State uncertainty principle. **1M**
7. Explain sp3 hybridisation in ethane molecule.
8. a) Mention the requirements of a primary standard solution. **3M**
   b) Define molality. **1M**
9. a) Write the Schrodinger wave equation and explain the terms in it. **2M**
   b) Explain the wave and particle nature of the electron. **2M**
10. Mention the kinetic theory of gases.

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**I B. Sc. I Semester I Internal Assessment Test**

**Chemistry Paper I**

**Date: 08/08/2018** **Duration: 1 Hour** **Total: 20 Marks**

**I. Answer any FOUR the following questions:** **4 X 1 = 4 Marks**

1. Explain the significance of $\Psi$ and $\Psi^2$.
2. Define hydrogen bonding with an example.
3. What is meant by primary standard solutions?
4. Explain the types of bonds present in ethylene molecule.
5. de Broglie wave equation is applicable for i) small particles ii)large particles iii) Medium particle iv) Unknown particle

**II. Answer any FOUR the following questions:** **4 X 4 = 16 Marks**

6. a) Derive de Broglie wave equation. **3M**
   b) State uncertainty principle. **1M**
7. Explain sp3 hybridisation in ethane molecule.
8. a) Mention the requirements of a primary standard solution. **3M**
   b) Define molality. **1M**
9. a) Write the Schrodinger wave equation and explain the terms in it. **2M**
   b) Explain the wave and particle nature of the electron. **2M**
10. Mention the kinetic theory of gases.

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**II B. Sc. III Semester I Internal Assessment Test**

**Chemistry Paper III**

Date: 25/02/2021 **Duration: 1 Hour** **Total: 20 Marks**

I. Answer any **FOUR** the following questions: **4 X 1 = 4 Marks**

1. What is the role of synergistic in solvent extraction?
2. Give the composition of flint glass.
3. Write the reaction of periodic acid with glycol.
4. What is the molecularity of reaction? Give an example.
5. What are dihydric alcohols? Mention an example.

II. Answer any **FOUR** the following questions: **4 X 4 = 16 Marks**

1. Explain the principle of solvent extraction.
2. Describe the manufacture of glass by Tank furnace method.
3. Explain the constituents of paints.
4. State and explain Arrhenius theory. **(2+2)**
5. Describe the distinguish test between primary, secondary and tertiary alcohols by Victor Meyer's method.
6. Derive an expression for rate constant of second order reaction with a=b.

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**III B. Sc. VI Semester**
**Chemistry Paper VII**

**Total: 20 Marks** **Time: 1 Hour**

**I. Answer Any FOUR the following questions:** **4 X 1 = 4 Marks**

1. Define G-value
2. Write the Claussus-Mossotti equation. Mention its terms.
3. Define Diastereomers. **OR** What are Synthotes?
4. Define Optical isomerism. **OR** What is reterosynthesis?
5. Mention the units of used to measure radioactivity.

**II. Answer Any FOUR the following questions:** **4 X 4 = 16 Marks**

6. What is molar refraction? Explain the applications of molar refraction in elucidating molecular structure.
7. Discuss optical activity in tartaric acid.

   **OR**

   Carryout retrosynthesis of benzocaine.
8. Explain the construction and working of Fricke dosimeter.
9. Describe the resolution of racemic mixture.

   **OR**

   Discuss the retrosynthesis of Saccharine.
10. Derive an expression for the determination of rate of disintegration in radioactivity.

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## III B. Sc. VI Semester
## Chemistry Paper VII

**Total: 20 Marks** **Time: 1 Hour**

**I. Answer Any FOUR the following questions:** **4 X 1 = 4 Marks**

1. Define G-value
2. Write the Claussus-Mossotti equation. Mention its terms.
3. Define Diastereomers. **OR** What are Synthotes?
4. Define Optical isomerism. **OR** What is reterosynthesis?
5. Mention the units of used to measure radioactivity.

**II. Answer Any FOUR the following questions:** **4 X 4 = 16 Marks**

6. What is molar refraction? Explain the applications of molar refraction in elucidating molecular structure.
7. Discuss optical activity in tartaric acid.

   **OR**

   Carryout retrosynthesis of benzocaine.
8. Explain the construction and working of Fricke dosimeter.
9. Describe the resolution of racemic mixture.

   **OR**

   Discuss the retrosynthesis of Saccharine.
10. Derive an expression for the determination of rate of disintegration in radioactivity.

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**III B. Sc. VI Semester**

**Chemistry Paper VIII**

**Total: 20 Marks** **Time: 1 Hour**

**I Answer Any FOUR the following questions:** 4 X 1 = 4 Marks

1. Narrate 3rd law of thermodynamics.
2. State Nernst heat theorem.
3. Define epimerisation.
4. What are silicones?
5. Write the preparation of $S_4N_4$.

**II. Answer Any FOUR the following questions:** 4 X 4 = 16 Marks

6. Explain the application of Claussius -Clapeyron equation.
7. Convert D-Arabinose into D-Glucose.
8. Explain the manufacture of Teflon and mention its applications.
9. Elucidate the cyclic structure of D-Glucose.
10. Write the preparation and explain the nature of bonding in posphozenes.

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**Sahyadri Science College Shivamogga**

**III B.Sc. VI Semester II Internal Assessment Test**

**Chemistry Paper VIII**

**Date: 12/09/2022** **Duration: 1Hour** **Total: 20 Marks**

**I. Answer any FOUR of the following questions** **4x1=4 Marks**

1. Mention any two postulates of quantum mechanics.
2. How do you confirm the presence of protein in the given sample?
3. Define Eigen value.
4. What is zwitter ion?
5. Determine the number valence electrons by EAN rule in $[Ni(CO)_4]$.

**II. Answer any FOUR of the following questions** **4x4=16 Marks**

6. Describe the preparation and properties of $S_4N_4$ compound.
7. Explain the primary and secondary structures of proteins.
8. Discuss classification of organometallic compounds based on Hepticity.
9. Derive an expression for Schrödinger wave equation for a particle in one dimensional box.
10. a) Show that $H\psi=E\psi$.
    b) Explain the synthesis of amino acids by Gabriel-Phthalimide method. **(2+2)**

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**III B.Sc. VI Semester II Internal Assessment Test**

**Chemistry Paper VIII**

**Date: 12/09/2022** **Duration: 1Hour** **Total: 20 Marks**

**I. Answer any FOUR of the following questions** **4x1=4 Marks**

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2. How do you confirm the presence of protein in the given sample?
3. Define Eigen value.
4. What is zwitter ion?
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**III B.Sc. VI Semester II Internal Assessment Test**

**Chemistry Paper VIII**

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2. How do you confirm the presence of protein in the given sample?
3. Define Eigen value.
4. What is zwitter ion?
5. Determine the number valence electrons by EAN rule in $[Ni(CO)_4]$.

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10. a) Show that $H\psi=E\psi$

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**III B.Sc. VI Semester I Internal Assessment Test**

**Chemistry Paper VIII**

**Date: 22/08/2022** **Duration: 1Hour** **Total: 20 Marks**

**I. Answer any FOUR of the following questions** **4x1=4 Marks**

1. State third law of thermodynamics.
2. What is meant by epimerisation?
3. Write the structure of hexacyclotriphosphazene.
4. Write the structure of sucrose.
5. Define Chemical potential.

**II. Answer any FOUR of the following questions** **4x4=16 Marks**

6. Derive an expression for integrated form of Clausius-Clapeyron equation.
7. What are silicones? How are they classified? Explain the preparation of cross-linked silicon polymers.
8. Discuss the manufacture of Teflon and mention its uses.
9. Explain the inter-conversion of glucose into fructose.
10. a) Write the three forms of Gibb's-Duhem equation.
    b) Explain the classification of carbohydrates with suitable example. **(2+2)**

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I.I.A III BSc 'F' Sec - 58 Scripts

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**III B. Sc. VI Semester**

**Chemistry Paper VIII**

**Total: 20 Marks** **Time: 1 Hour**

**I Answer Any FOUR the following questions:** 4 X 1 = 4 Marks

1. Define isoelectric point.
2. What are organometallic compound?
3. What is meant by Gibb's chemical potential?
4. What are amino acids?
5. How is ferrocene prepared?

**II. Answer Any FOUR the following questions:** 4 X 4 = 16 Marks

6. Discuss the secondary structure of proteins.
7. Describe the classification of organometallic compounds.
8. Derive an expression for three forms of Gibb's-Duhem's equation.
9. Explain the structure and bonding in ferrocene.
10. Discuss Gabriel's phthalimide synthesis of amino acids.

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**III B. Sc. V Semester**
**Chemistry Paper VI**

**Total: 20 Marks** **Time: 1 Hour**

**I. Answer Any FOUR the following questions:** **4 X 1 = 4 Marks**

1. What is extensive property? Mention an example.
2. State and explain 1st law of thermodynamics.
3. What are electromagnetic radiations?
4. Define coordination sphere.
5. Define isobaric process.

**II. Answer Any FOUR the following questions:** **4 X 4 = 16 Marks**

6. Derive an expression for the variation of heat with temperature at constant pressure.
7. What are ligands? Explain the classification of ligands.
8. Explain the following methods of detection of complexes. i) conductivity ii) colour
9. Derive an expression for total work done in an isothermal reversible expansion of an ideal gas.
10. Calculate the EAN for following complexes. i) $[Co(NH_3)_6]^{3+}$ ii) $[Cu(CN)_4]^{3-}$

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**III B. Sc. V Semester**
**Chemistry Paper VI**

**Total: 20 Marks** **Time: 1 Hour**

**I. Answer Any FOUR the following questions:** **4 X 1 = 4 Marks**

1. Write the IUPAC name of following complex $[Co(NH_3)_2(en)_2Cl_2]$.
2. Define efficiency.
3. Write the limitations of $1^{st}$ law of thermodynamics.
4. What is linkage isomerism? Give an example.
5. Write an example for symmetric top molecule.

**II. Answer Any FOUR the following questions:** **4 X 4 = 16 Marks**

6. Explain the factors influencing the stability of complexes.
7. Discuss the change in entropy in reversible and irreversible process.
8. Explain the quantisation of different forms of energy in a molecule.
9. Discuss the classification of types of molecules with suitable example.
10. i) Explain the physical significance of entropy.
    ii) Explain the application of complex formation in metallurgy. **(2+2)**

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**III B. Sc. V Semester**
**Chemistry Paper VI**

**Total: 20 Marks** **Time: 1 Hour**

**I. Answer Any FOUR the following questions:** **4 X 1 = 4 Marks**

1. Write the IUPAC name of following complex $[Co(NH_3)_2(en)_2Cl_2]$.
2. Define efficiency.
3. Write the limitations of 1st law of thermodynamics.
4. What is linkage isomerism? Give an example.
5. Write an example for symmetric top molecule.

**II. Answer Any FOUR the following questions:** **4 X 4 = 16 Marks**

6. Explain the factors influencing the stability of complexes.
7. Discuss the change in entropy in reversible and irreversible process.
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**III B.Sc. VI Semester II Internal Assessment Test**

**Chemistry Paper VIII**

**Date: 12/09/2022** **Duration: 1Hour** **Total: 20 Marks**

**I. Answer any FOUR of the following questions** **4x1=4 Marks**

1. Mention any two postulates of quantum mechanics.
2. How do you confirm the presence of protein in the given sample?
3. Define Eigen value.
4. What is zwitter ion?
5. Determine the number valence electrons by EAN rule in $[Ni(CO)_4]$.

**II. Answer any FOUR of the following questions** **4x4=16 Marks**

6. Describe the preparation and properties of $S_4N_4$ compound.
7. Explain the primary and secondary structures of proteins.
8. Discuss classification of organometallic compounds based on Hepticity.
9. Derive an expression for Schrödinger wave equation for a particle in one dimensional box.
10. a) Show that $H\psi=E\psi$.
    b) Explain the synthesis of amino acids by Gabriel-Phthalimide method. **(2+2)**

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**Sahyadri Science College Shivamogga**
**I B. Sc. I Semester II Internal Assessment Test**
**Chemistry Paper I**

**Date: 09/03/2021** **Duration: 1 Hour** **Total: 20 Marks**

**I. Answer any FOUR the following questions:** **4 X 1 = 4 Marks**

1. What is the role of o-phosphoric acid in redox titration? → to alter the electrode potential value of Fe - system
2. Assign all the possible quantum numbers for boron atom.
3. What is an electrophile? Mention an example.
4. Define critical volume. occupied by 1 mole of gas at critical temp & critical press
5. Write resonance structures of carbonate ion.

**II. Answer any FOUR the following questions:** **4 X 4 = 16 Marks**

6. Explain various types of organic reactions.
7. Discuss the theory of redox indicators.
8. Describe the energy level diagram of poly electron system.
9. Discuss the experimental determination of critical constants.
10. a) Explain the factors affecting the magnitude of screening effect.
    b) Calculate the effective nuclear charge experienced by 4s electron in chromium atom. **[2+2]**

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**II B. Sc. III Semester II Internal Assessment Test**

**Chemistry Paper III**

**Date: 09/03/2021** **Duration: 1 Hour** **Total: 20 Marks**

**I. Answer any FOUR the following questions:** **4 X 1 = 4 Marks**

1. Mention an example for homogeneous catalysis.
2. Write the IUPAC name of glycerol.
3. What is sedimentation?
4. Write the preparation of $BF_3$.
5. Define isopycinic centrifugation.

**II. Answer any FOUR the following questions:** **4 X 4 = 16 Marks**

6. Explain the structure and bonding in diborane.
7. Discuss the manufacture of phenol from cumene.
8. Explain theory of catalysis.
9. Describe the mechanism of enzyme catalysis.
10. Explain the manufacture of glycerol from propane.

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**II Internal Assessment** **Sub: Mathematics** **BCA II Semester**

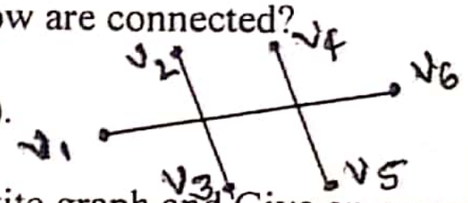
**Time: 1 Hr** 2017 **Max. Marks: 20**

**I Answer any FIVE questions:** **2×5=10**

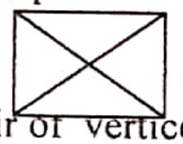
1. Which of the graphs below are connected?

(a).

(b).



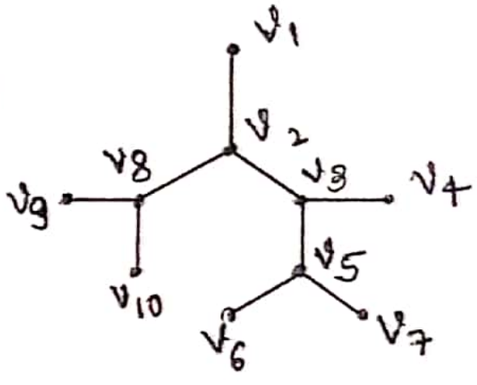

2. Define Compleate Bipartite graph and Give an example.
3. Find all the Spanning trees of the graph G :



4. P.T. There is one and only one path b/w every pair of vertices in a tree T.
5. The following are the number of children for 20 couples find the mode
   No. Of children per couples : 2,3,6,3,4,0,5,2,2,4,3,2,1,0,4,2,2,1,1,3
6. Find the Arithmetic mean of Heights of six students are 163,165,168,170,175.
7. Find the "median" of the following marks scored by 8 students in an examination
   The % of marks are : 46,83,13,04,15,28,30,34

**II Answer any TWO questions:** **5×2=10**

1. P.T. A three with 'n' vertices has (n-1) edges.
2. For the given tree below find (i). Distance , (ii). Eccentricity , (iii). Centre




3. The following data gives the age of mothers at the time of giving birth to their First child. Find the arithmetic mean by short cut metod

| Age(years) | 18-20 | 21-23 | 24-26 | 27-29 | 30-32 | 33-35 |
|---|---|---|---|---|---|---|
| mothers | 8 | 23 | 36 | 7 | 3 | 1 |

4. In the following frequency distribution of pulse rate of patients one of the class frequencies is missing, If the median is 78, find the missing frequency

| Pulse rate | 64-68 | 68-72 | 72-76 | 76-80 | 80-84 | 84-88 |
|---|---|---|---|---|---|---|
| No.Of.patients | 3 | 12 | - | 40 | 32 | 11 |

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**II Internal Assessment**
**Sub: Mathematics**
**I B.Sc. (1 Sem)** 2018

**Time:** 1 Hour **Max. Marks: 20**

**I. Answer any FIVE questions** **5x2=10**

1. Find the value of $\mu$ for which the system $7x + 4y + 3z = 0,\ x + 2y + \mu z = 0,$ $x + 3y + 2z = 0$ has a non-trivial solution.
2. Find the Eigen values of the matrix $\begin{bmatrix} 1 & 2 \\ 3 & 2 \end{bmatrix}$
3. Find $n^{th}$ derivative of $e^x \log x$ .
4. If $y = x^n \log x$ show that $y_{n+1} = \frac{n!}{x}$
5. Show that the radius of curvature of the curve $x^4 + y^4 = 2$ at the point $(1,1)$ is $\frac{\sqrt{2}}{3}$
6. State Euler's Extension theorem.
7. Define Homogeneous function.

**II. Answer any TWO questions** **2x5=10**

8. Solve completely the homogeneous system of equations $2x - 3y + z = 0,$ $x + 2y - 3z = 0, 4x - y - 2z = 0.$
9. If $y = (\sin^{-1} x)^2$ show that $(1 - x^2)y_{n+2} - (2n + 1)xy_{n+1} - n^2 y_n = 0$
10. Show that the radius of curvature for polar curves is $\rho = \frac{[r^2 + r_1^2]^{\frac{3}{2}}}{2r_1^2 + r^2 - r r_2}$
11. State and Prove Euler's theorem for homogeneous function.

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2018

**I Internal Assessment**

**Sub: Mathematics - Paper-7** **B. Sc VI Semester**

**Time:** 1 Hr **Max.Marks: 20**

**I Answer any FIVE questions:** **2×5=10**

1. Evaluate $E^{-1}\Delta\, x^3$
2. Prove that $\Delta - \nabla = \Delta\nabla$
3. Prove that $u_3 + \Delta u_2 + \Delta^2 u_1 + \Delta^3 u_1 = u_4$
4. If $F[f(x)] = \hat{f}(\alpha)$ then find $F[f(x).sinax]$
5. Find the Fourier transform of $e^{-|x|}$
6. Define lower Riemann sum and upper Riemann sum
7. Let $f(x) = x$ for $x \in [a,b]$ and let $P = \left\{0, \frac{1}{3}, \frac{2}{3}, 1\right\}$ be a partition of $[0,1]$. Compute $L(P,f)$ and $U(P,f)$

**II Answer any TWO questions:** **5×2=10**

1. Evaluate $\Delta^n \cos(ax+b)$
2. State and prove fundamental theorem of finite difference.
3. Find the Fourier transform of $f(x) = \begin{cases} 1-|x| & for \quad |x| \le 1 \\ 0 & for \quad |x| > 1 \end{cases}$

   And hence deduce that $\int_0^\infty \frac{sin^2 t}{t^2} dt = \frac{\pi}{2}$
4. Let $f$ and $g$ be two real valued bounded functions defined over $[a,b]$, and then prove that

   i. $U(P,\ f+g) \le U(P,f) + U(P,g)$ ii. $L(P,\ f+g) \le L(P,f) + L(P,g)$

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I Internal Assessment

Sub: Mathematics 2018

B.Sc. V Semester Paper-V

Time: 1 Hr Max. Marks: 20

I Answer any FOUR of the following: 2×4=8

1. In a vector space V(F) show that for any scalar $C$ and for any vectors $\alpha$ and $\beta$. $C(\alpha - \beta) = C\alpha \quad C\beta$.
2. Express the vector $(3, 5, 2)$ as a linear combination of the vectors $(1, 1, 0), (2, 3, 0), (0, 0, 1)$ in $V_3(R)$.
3. Prove that the Intersection of two subspaces of a vector space V is again a subspace of V
4. Compute $\int_c xy\,dx$ along arc of the parabola $x = y^2$ from $(1, -1)$ $to$ $(1, 1)$
5. Show that $\int_c (x + y)dx + (x - y)dy = 0$ where C is the ellipse $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$

II Answer any THREE of the following: 4×3=12

6. A non-empty subset W of a vector space V(F) is a subspace if and only if $\forall\, a, b \in F \,\&\, \alpha, \beta \in W$ $\Rightarrow a\alpha + b\beta \in W$
7. Find 'k' so that $(1, k, 5)$ is a linear combination of $(1, -3, 2)$ & $(2, -1, 1)$
8. Evaluate $\int_c ydx + xdy - z^2dz$, where C is the curve given by $x = sint$, $y = cost$, $z = t^2$ and $0 \le t \le 1$
9. If C is the curve leading from $(0, 0, 1)$ $to$ $\left(1, \frac{\pi}{4}, 2\right)$.

   Evaluate $\int_c 2xyz^2dx + (x^2z^2 + z\,cosyz)dy + (2x^2yz + y\,cosyz)dz$
10. Evaluate $\int_c (x^2 - y^2)dx + x^3\,y\,dy$ where C is the semicircle with centre at $(0, 4)$, radius 2 units and lying in the first quadrant.

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SHIMOGA, Karnataka State

II Internal Assessment

I Internal Assessment

Sub: Mathematics 2019

III B.Sc. Paper 6

Time: 1 Hr

Max. Marks: 20

**I Answer any 5 of the following:** $2 \times 5 = 10$

1. Find the complimentary function of $(x+1)\frac{d^2y}{dx^2} - 2(x+3)\frac{dy}{dx} + (x+5)y = e^x, (x \neq 1).$
2. Verify whether the equation $(1+x^2)\frac{d^2y}{dx^2} + 4x\frac{dy}{dx} + 2y = \sec^2 x$ is exact or not.
3. Find Wronskins of $y_2 + 9y = sec3x.$
4. Is the union of two subspace of a vector space V(f) is a subspace? give an example to justify your answer.
5. S.T the set S={(-1,2,1) (3,0,-1) (-5,4 ,3)} is linearly dependent.
6. Determine whether the set {(1,1,1) (1,2,3) (-1,0,1)} is a basis of $v_3(R)$.
7. P.T. W={(0,0,x)/x$\epsilon R$} is a subspace of $v_3(R)$.

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**II Answer any 2 of the following:** $5 \times 2 = 10$

8. Solve $(1+x^2)^2\frac{d^2y}{dx^2} + 2x(1+x^2)\frac{dy}{dx} + y = 0$ using the transformation $Z = \tan^{-1} x.$
9. Solve $x^2\frac{d^2y}{dx^2} - 4x^3\frac{dy}{dx} + (4x^4 - 2x^2 + 5)y = x^4e^{x^2}$ by reducing to the normal form.
10. P.T. the non-zero vector $\alpha_1, \alpha_2 \ldots\ldots\ldots\ldots\ldots \alpha_n$ in a vector space V(F) are linearly dependent iff some one of vectors $\alpha_k$ is a linear combination of it's preceding one's.
11. Find the basis &dimension of the subspace spanned by S={(1,2,3) (3,1,0) (-2,1,3)} in $v_3(R)$.

SHIMOGA, Karnataka State.

# II Internal Assessment

Sub: Mathematics (Paper-7) B. Sc VI Semester 2019

Time: 1 Hr Max. Marks: 20

**I Answer any FIVE questions:** 2×5=10

1. Evaluate $\int_4^{5.2} log_e x\, dx$ by using Weddles rule.
2. Write Lagrange's interpolation formula.
3. Evaluate $\int_0^{0.3}(1-8x^3)^{1/2}dx$ by using Simpson's $\frac{3}{8}^{th}$ rule for the following data

| x | 0 | 0.1 | 0.2 | 0.3 |
|---|---|---|---|---|
| y | 1 | 0.9959 | 0.9674 | 0.8854 |

4. Find the Fourier sine transform of $f(x) = e^{-ax}$ where $a > 0$.
5. Prove that $F_c[f(x)sinax] = \frac{1}{2}[\hat{f}_s(\propto +a) - \hat{f}_s(\propto -a)]$.
6. State Darboux Theorem.
7. Prove that every continuous function is Rieman Integrable.

**II Answer any TWO questions:** 5×2=10

1. Find the number of students for the following data who secured the marks not more than 45

| Marks | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 |
|---|---|---|---|---|---|
| Number of students | 35 | 48 | 70 | 40 | 22 |

2. The following table gives the corresponding values of pressure P & a specific volume V of super heated steam.

| V | 2 | 4 | 6 | 8 | 10 |
|---|---|---|---|---|---|
| P | 105 | 42.7 | 25.7 | 16.7 | 13 |

Find the rate of change of pressure P with respect to V at V=2

3. Evaluate $\int_1^2(3x+1)dx$ by using integration as limit sum.
4. Find the infinite Fourier cosine Transform of $e^{-x^2}$.

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**I Internal Assessment—III B.Sc., (Paper-8)**

**Time: 1 Hr** **Sub: Mathematics** 2019 **Max. Marks: 20**

**I Answer any 2 of the following:** $2 \times 2 = 4$

1. If $f \in R[a,b]$ then prove that $m(b-a) \leq \int_a^b f(x)dx \leq M(b-a)$, where $m$ and $M$ are inf and sup of $f$ over $[a,b]$.

2. If $\vec{r}$ represents the position vector of a point P, then show that
   (i) $div\,\vec{r} = 3$ (ii) $curl\,\vec{r} = 0$.

3. Find the real and imaginary parts of $e^{\frac{1}{z}}$.

4. Evaluate: $\lim_{z \to e^{\frac{i\pi}{4}}} \frac{z^2}{z^4+z^2+1}$

**II Answer any 4 of the following:** $4 \times 4 = 16$

1. Show that $f(x) = x^3$ is R-integrable over [0,3] and hence $\int_0^3 f(x)dx = \frac{81}{4}$

2. State and prove Darboux theorem.

3. Find the angle between the normal to the surface $2x^2 + 3y^2 = 5z$ at the point $(2,-2,4)$ and $(-1,-1,1)$.

4. Show that $arg\left(\frac{z-1}{z+1}\right) = \frac{\pi}{3}$ represents a circle and find its centre and radius.

5. Find the equation of a circle passing through the points $1-i,\ 2i,\ 1+i$. Find its centre and radius.

6. Verify whether the points $1+i,\ -2+2i,\ -2-8i$ *and* $-6$ are concyclic or not.

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2020

**I Internal Assessment III B.Sc.** [Paper - 08]

**Time: 1 Hr** **Sub: Mathematics** **Max. Marks: 20**

$5 \times 2 = 10$

**I Answer any 5 of the following:**

1. Prove that lower Riemann integral cannot exceed upper Riemann integral.
2. Show that $f(x) = \begin{cases} 0 & \text{if x is rational} \\ 1 & \text{if x is irrational} \end{cases}$ is not R-integrable over any $[a, b]$.
3. If $\emptyset(x, y, z) = x^3 + y^3 + z^3 - 3xyz$, then find grad$\phi(1, -1, 1)$.
4. Find the maximum directional derivative of $\emptyset(x, y, z) = x^2y + yz^2 - xz^2$ at $(-1, 2, 1)$.
5. Find the real and imaginary part of $e^{z^2}$ where $z = x + iy$.
6. Prove that $Arg(z_1.z_2) = Argz_1 + Argz_2$.
7. Find the derivative of the function $f(z) = \frac{z+1}{z-1}$ at $1 + i$.

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$2 \times 5 = 10$

**II Answer any 2 of the following:**

8. Show that $f(x) = x^3$ is R-integrable over [0,3] and hence $\int_0^3 f(x)dx = \frac{81}{4}$.
9. Find the angle between the surfaces $x^2 + y^2 + z^2 = 16$ and $x^2 + y^2 - z = 4$ at the point $(2, -1, 2)$ common to them.
10. Show that $z\bar{z} + b\bar{z} + \bar{b}z + c = 0$ represents the equation of the circle and hence find the centre and radius of $z\bar{z} + \bar{z} + z - 4 = 0$.
11. Show that $Amp\left(\frac{z-1}{z+1}\right) = \frac{\pi}{4}$ represents a circle. Find its centre and radius.

2020-21

II Internal Assessment
Sub: Mathematics
III B.Sc. (V Sem) - Paper V

Time: 1 Hour

Max. Marks: 20

I. Answer any TWO questions 2x2=4

1. Let A and B are two ideals of a ring R then prove that $A + B = \{a + b / a \in A \text{ and } b \epsilon B\}$ is an ideal of R.
2. Find out the principal ideal of the ring $(z_8, +_8, \times_8)$.
3. Form the Partial differential equation by eliminating the arbitrary constants $(x-h)^2 + (y-k)^2 + z^2 = a^2$
4. Examine whether $f(x) = \begin{cases} 1 + {}^4/_{3x} & -{}^3/_2 < x < 0 \\ 1 - {}^4/_{3x} & 0 \le x < {}^3/_2 \end{cases}$ is an even or odd function is.

II. Answer any FOUR questions 4x4=16

5. Prove that a field has improper ideals.
6. Let P is an integer then Prove that PZ is a maximal ideal of Z iff P is a prime number.
7. Let $I$ is a maximal ideal of a commutative ring with unity of R then prove that ${}^R/_I$ is a field.
8. Form the Partial differential equation by eliminating the arbitrary constants $\frac{x^2}{a^2} + \frac{y^2}{b^2} + \frac{z^2}{c^2} = 1$.
9. Solve $\frac{y^2 z}{x} p + xzq = y^2$.
10. Obtain a Fourier series of the function $f(x) = \frac{\pi - x}{2}$ in the interior $(0, 2\pi)$ and hence deduce that $1 - \frac{1}{3} + \frac{1}{5} - \frac{1}{7} + \cdots = \frac{\pi}{4}$

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2020-21
Maths

## II Internal Assessment
## Sub: Mathematics
## III B.Sc. (V SEM) - Paper VI

Time: 1 Hour

Max. Marks: 20

**I. Answer any TWO questions** 2x2=4

1. Evaluate $\int_0^1 \int_0^{x^2} e^{\frac{y}{x}}\, dy\, dx$.
2. Evaluate $\int_1^3 \int_{\frac{1}{x}}^1 \int_0^{\sqrt{xy}} xyz\ dx\ dy\ dz$.
3. Evaluate $L[e^{-t}\, u(t-2)]$.
4. Find the Inverse Laplace transform of $\frac{s}{(s+4)^2}$

**II. Answer any FOUR questions** 4x4=16

1. Evaluate $\iint_D x^2\ dx\, dy$ over the Trapezium whose vertices are (0,0) (5,0) (3,1) and (0,1).
2. Evaluate $\int_0^{\infty} \int_0^{x} x\, e^{\frac{-x^2}{y}}\ dy\ dx$ by changing the order of integration.
3. Find the Surface area of the sphere $x^2 + y^2 + z^2 = a^2$.
4. Find the $L[f(t)]$ if $f(t) = \begin{cases} E & 0 \le t \le \frac{T}{2} \\ -E & \frac{T}{2} \le t \le T \end{cases}$ and f(t+T) = f(t).
5. Express the following function in terms of unit step function and find their Laplace transform of
$$f(t) = \begin{cases} t^2 & 0 < t < 2 \\ t-1 & 2 < t < 3 \\ 7 & t > 3 \end{cases}$$
6. Find the Inverse Laplace transform of $\frac{s^2-s+2}{s(s-3)(s+2)}$

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January 2021

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**I Internal Assessment—III B.Sc.,**
**Sub: Mathematics (Paper-5)** **Max. Marks: 20**

**$2 \times 5 = 10$**

I Answer any 5 of the following:

1. Prove that a field has no zero devisors.
2. In a ring R, If $a^2 = a \ \forall \ a \in R$ then P.T. the additive inverse of an element is itself.
3. Give an example to show "Union of two Subrings of a ring is need not be a subring".
4. Write the fourier expansion of f(x) over the interval (0,2l) also write the corresponding fourier coefficients.
5. Find $a_0$ for the fourier series of the function f(x) defined by $f(x) = \begin{cases} 1, & -\pi \leq x \leq 0 \\ 2, & 0 \leq x \leq \pi \end{cases}$.
6. Verify the integrability condition for the the equation $(y+z)dx + (z+x)dy + (x+y)dz = 0$.
7. Find whether f(x) is even or odd $f(x) = \begin{cases} 1+x, & -\pi < x < 0 \\ 1-x, & 0 < x < \pi \end{cases}$.

**$5 \times 2 = 10$**

II Answer any 2 of the following:

8. Prove that Every field is an integral domain.
9. Let $F = \left\{ \begin{pmatrix} x & x \\ x & x \end{pmatrix} / x \in R \right\}$ S.T. F is a Subring of $M_2(R)$.
10. Obtain the Fourier series of f(x) = $1 - x^2$ over the interval (-1,1).
11. Verify the condition for integrability and solve the equation $y = \log x\, dx + zx \log z dy + xydz = 0$.

* ALL THE BEST *


**I Internal Assessment—III B.Sc.,**
**Sub: Mathematics(Paper-5)** **Max. Marks: 20**

**$2 \times 5 = 10$**

Answer any 5 of the following:

1. Prove that a field has no zero devisors.
2. In a ring R, If $a^2 = a \ \forall \ a \in R$ then P.T. the additive inverse of an element is itself.
3. Give an example to show "Union of two Subrings of a ring is need not be a subring".
4. Write the fourier expansion of f(x) over the interval (0,2l) also write the corresponding fourier coefficients.
5. Find $a_0$ for the fourier series of the function f(x) defined by $f(x) = \begin{cases} 1, & -\pi \leq x \leq 0 \\ 2, & 0 \leq x \leq \pi \end{cases}$.
6. Verify the integrability condition for the the equation $(y+z)dx + (z+x)dy + (x+y)dz = 0$.
7. Find whether f(x) is even or odd $f(x) = \begin{cases} 1+x, & -\pi < x < 0 \\ 1-x, & 0 < x < \pi \end{cases}$.

**$5 \times 2 = 10$**

II Answer any 2 of the following:

8. Prove that Every field is an integral domain.
9. Let $F = \left\{ \begin{pmatrix} x & x \\ x & x \end{pmatrix} / x \in R \right\}$ S.T. F is a Subring of $M_2(R)$.
10. Obtain the Fourier series of f(x) = $1 - x^2$ over the interval (-1,1).
11. Verify the condition for integrability and solve the equation $y = \log x\, dx + zx \log z dy + xydz = 0$.

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January 2021

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**I Internal Assessment**
**Sub: Mathematics**
**III B.Sc. (V Sem) - Paper VI**

**Time:** 1 Hour **Max. Marks: 20**

**I. Answer any FIVE questions** **5x2=10**

1. Evaluate $\int_C (3x-2y)dx+(y+2z)dy-x^2dz$ where C is given by $x=t, y=2t^2$ *and* $z=3t^3$ $0\le t\le 1$.
2. Verify the Exactness of ~~given integral~~ Line Integral
   $\int_C (3x^2-3yz+2xz)dx+(3y^2-3xz+z^2)dy+(3z^2-3xy+x^2+2yz)dz$.
3. Evaluate $\int_0^1\int_0^2 (x+y)\,dy\,dx$.
4. Show that $L[a\,f(t)+b\,g(t)]=a\,L[f(t)]+b\,L[g(t)]$
5. Find $L[10^t]$
6. Find $L[\cos^2 t]$
7. Find $L[\,e^{2t}(2t^2-3t+4)]$

**II. Answer any TWO questions** **2x5=10**

8. Evaluate $\int_C (3x+y)dx+(2y-x)dy$ along the curve $y=x^2+1$ from (0, 1) and (3, 10).
9. Evaluate $\int_0^2\int_0^{x^2}\frac{1}{x^2+y^2}\,dy\,dx$
10. Find $L[\frac{2\sin 5t\cos 3t}{t}]$
11. If $L[f(t)]=F(s)$ then prove that $L[t\,f(t)]=-F'(s)$.


**I Internal Assessment**
**Sub: Mathematics**
**III B.Sc. (V Sem) - Paper VI**

**Time:** 1 Hour **Max. Marks: 20**

**I. Answer any FIVE questions** **5x2=10**

1. Evaluate $\int_C (3x-2y)dx+(y+2z)dy-x^2dz$ where C is given by $x=t, y=2t^2$ *and* $z=3t^3$ $0\le t\le 1$.
2. Verify the Exactness of ~~given integral~~ LINE Integral
   $\int_C (3x^2-3yz+2xz)dx+(3y^2-3xz+z^2)dy+(3z^2-3xy+x^2+2yz)dz$.
3. Evaluate $\int_0^1\int_0^2 (x+y)\,dy\,dx$.
4. Show that $L[a\,f(t)+b\,g(t)]=a\,L[f(t)]+b\,L[g(t)]$
5. Find $L[10^t]$
6. Find $L[\cos^2 t]$
7. Find $L[\,e^{2t}(2t^2-3t+4)]$

**II. Answer any TWO questions** **2x5=10**

8. Evaluate $\int_C (3x+y)dx+(2y-x)dy$ along the curve $y=x^2+1$ from (0, 1) and (3, 10).
9. Evaluate $\int_0^2\int_0^{x2}\frac{1}{x^2+y^2}\,dy\,dx$
10. Find $L[\frac{2\sin 5t\cos 3t}{t}]$
11. If $L[f(t)]=F(s)$ then prove that $L[t\,f(t)]=-F'(s)$.

**SAHYADRI SCIENCE COLLEGE**

**DEPARTMENT OF ZOOLOGY VIsem**

**I INTERNALS PAPER- 6.1 (2017-18)**

**I. Answer the following** **4X1=4Marks**

1. What is Synapse?
2. Define Cleavage.
3. What is Codon?
4. What is Discoblastula?

**II. Answer any two of the following** **3X2=06Marks**

5. Explain Parthenogenesis with examples.
6. Mention the significance of Mitosis.
7. Explain the types of cancer cells.
8. Write the Structure and Function of Yolk sac.

**III. Answer any two of the following** **5X2=10Marks**

9. Describe Watson and Crick model of DNA.
10. Write the characteristics of Genetic code.
11. Describe the cleavage in frog egg.
12. Explain Menstrual cycle.

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**SAHYADRI SCIENCE COLLEGE**

**DEPARTMENT OF ZOOLOGY VIsem**

**II INTERNALS PAPER- 6.1 (2017-18)**

**I. Answer the following** **4X1=4Marks**

1. What are Morphogenic movements?
2. Define Meiosis.
3. Give an example for Cleidoic egg.
4. What is Cancer cell?

**II. Answer any two of the following** **3X2=06Marks**

5. Write a short note on Lampbrush chromosomes.
6. Briefly describe the Achromatic apparatus..
7. Mention the significance of Meiosis.
8. Write a short note on Carcinogenic agents.

**III. Answer any two of the following** **5X2=10Marks**

9. Explain the mechanism of Fertilization.
10. Explain briefly about the characteristics of Cancer cells.
11. Explain Nucleosome Model.
12. Describe the structure of Graafian follicle.

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**DEPARTMENT OF ZOOLOGY VIsem**

**I INTERNALS PAPER- 6.2 (2017-18)**

**I. Answer the following** **4X1=4Marks**

1. What is Monohybrid cross?
2. Define Testcross.
3. What is Gene?
4. What are Pseudoallele?

**II. Answer any two of the following** **3X2=06Marks**

5. Write a short note on Transgenic animal.
6. Write a neat labeled diagram of Shuttle vectors.
7. Explain Standard deviation.
8. Write a short note on plasmid.

**III. Answer any two of the following** **5X2=10Marks**

9. Explain Polygenic Inheritance.
10. Explain Sex linked inheritance in Man.
11. Write briefly on CLB technique.
12. Explain about transgenic animals.

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**DEPARTMENT OF ZOOLOGY IV sem**

**I INTERNALS PAPER- (2017-18)**

**I. Answer the following** **4X1=4Marks**

1. What is Ethology?
2. Define Ecology.
3. Define Biodiversity.
4. Define Motivation.

**II. Answer any two of the following** **3X2=06Marks**

5. Explain Social behaviour of Honey bee.
6. Explain structure of liver and its function.
7. Explain a) Imprints b) Reflex action
8. Explain migration of Salmon fish.

**III. Answer any two of the following** **5X2=10Marks**

9. Explain Parental care in Hippocampus.
10. Explain Social organization in Primates.
11. Explain the histopathology of liver and kidney.
12. Explain briefly about biological clock.

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**DEPARTMENT OF ZOOLOGY IV sem**

**II INTERNALS PAPER- (2017-18)**

**I. Answer the following** **4X1=4Marks**

1. What is Food chain?
2. What is Natality?
3. What is Mortality?
4. What is Global warming?

**II. Answer any two of the following** **3X2=06Marks**

5. What are ecological pyramids?
6. Explain Bhopal gas tragedy.
7. Explain Population growth curves.
8. Explain Environmental hazards.

**III. Answer any two of the following** **5X2=10Marks**

9. Explain Natural disasters.
10. Explain the types of plastics and problems of plastics.
11. Explain the Life table and survivorship curve.
12. Explain Ozone depletion.

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**DEPARTMENT OF ZOOLOGY IIIsem**

**I INTERNALS PAPER- (2017-18)**

**I. Answer the following** **4X1=4Marks**

1. Define Digestion.
2. What is Blood pressure?
3. What is Ureotelic animals?
4. What are Ectotherms?

**II. Answer any two of the following** **3X2=06Marks**

5. Explain types of Circulation.
6. Explain role of gastrointestinal harmone.
7. Explain thermoregulation in Poikilotherms.
8. Explain the types of Muscles.

**III. Answer any two of the following** **5X2=10Marks**

9. Explain the Physiology of Urine formation.
10. Describe the origin and conduction of heart beat..
11. Explain Neurogenic and Myogenic heart conduction.
12. Write a note on respiratory disorders.

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**DEPARTMENT OF ZOOLOGY IIIsem**

**II INTERNALS PAPER- (2017-18)**

**I. Answer the following** **4X1=4Marks**

1. What is Internal respiration?
2. Define endocrine glands.
3. Expand ICSH.
4. Define Osmoconformers.

**II. Answer any two of the following** **3X2=06Marks**

5. Explain the classification of Carbohydrates.
6. Explain importance of Phospholipids.
7. Explain Classification of enzymes.
8. Explain Thyroid gland and its hormonal secretion.

**III. Answer any two of the following** **5X2=10Marks**

9. Explain Endocrine gland and its Harmone secretions.
10. Explain mechanism of Muscle contraction.
11. Explain Structure of Multipolar neuron.
12. Explain the mechanism of Enzyme action.

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**DEPARTMENT OF ZOOLOGY IIsem**

**I INTERNALS PAPER- (2017-18)**

**I. Answer the following** **4X1=4Marks**

1. What is Metamorphosis?
2. Define Chordata.
3. Define Gnathostomata.
4. What is Poikilotherms?

**II. Answer any two of the following** **3X2=06Marks**

5. Mention the orders of Amphibia with examples.
6. Describe the diagnostic character of Chordata.
7. Explain the Endoskeleton system of Amphibia.
8. Draw a neat labeled diagram of Respiratory system of Amphibia..

**III. Answer any two of the following** **5X2=10Marks**

9. Explain the general characteristics of Pisces with examples.
10. Explain the Urinogenital system of Amphibia.
11. Explain the general characteristics of Amphibia.
12. Explain the Origin of Tetrapoda.

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**DEPARTMENT OF ZOOLOGY IIsem**

**II INTERNALS PAPER- (2017-18)**

**I. Answer the following** **4X1=4Marks**

1. What are Mammals?
2. Structure of Tooth.
3. Define Metanephric kidney.
4. Define Pronephric kidney.

**II. Answer any two of the following** **3X2=06Marks**

5. Write a brief account on Wetland birds..
6. Explain the importance of
7. Draw a neat labeled diagram of Respiratory system of Rabbit.
8. Draw a neat labeled diagram of Digestive system of Aves.

**III. Answer any two of the following** **5X2=10Marks**

9. Explain the general characteristics of Aves.
10. Explain the general characteristics of Mammals.
11. Write the distinctive features of Protheria and Metatheria.
12. Explain the Evolution of Aortic arches in Vertebrates.

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## DEPARTMENT OF ZOOLOGY

## I INTERNALS PAPER- 5.2(2017-18)

**I. Answer the following** **4X1=4Marks**

**1.** What is Poultry?

**2.** What is exotic breed?

**3.** What is Aqua culture?

**4.** What is Sericulture?

**II. Answer any two of the following** **3X2=06Marks**

**5.** Explain Housing and hygine of Diary animals.

**6.** Describe aim and scope of Poultry.

**7.** Explain Byproducts of Diary.

8. Explain Grainage activity in Silkworm.

**III. Answer any two of the following** **5X2=10Marks**

**9.** Explain Artificial Insemination.

**10.** Explain Silkworm diseases.

**11.** Explain the lifecycle of Bombyx mori.

**12.** Explain the scope of Aquaculture.

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# SAHYADRI SCIENCE COLLEGE

## DEPARTMENT OF ZOOLOGY

## II INTERNALS PAPER-5.2(2017-18)

**I. Answer the following** **4X1=4Marks**

1. What is Apiculture?
2. What is Royal jelly?
3. What is Vermiculture?
4. Name any two milch breeds.

**II. Answer any two of the following** **3X2=06Marks**

5. Write a chemical composition of Honey.
6. Draw a neat labeled diagram of Sting apparatus of Honey bee.
7. Explain the types of Silkworm.
8. Write a note on diary diseases.

**III. Answer any two of the following** **5X2=10Marks**

9. Explain Mouth parts of Honey bee.
10. Explain the preparation of Vermicompost and its importance.
11. Explain the scope of sericulture and its importance.
12. Explain the Apiculture and its Byproducts and its diseases.

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# SAHYADRI SCIENCE COLLEGE

## DEPARTMENT OF ZOOLOGY I SEMESTER
## I INTERNALS PAPER-I (2018-19)

**I. Answer any five of the following** **4X1=4Marks**

1. Mention the disease caused by the Taenia solium
2. Give an example for fresh water spomge
3. What is pseudocoelom?
4. Define bilateral symmetry

**II. Answer any two of the following** **3X2=06Marks**

5. Classify coelenterata with example
6. Write a note on serial homology
7. Draw a labeled diagram of digestive system of Leech
8. Define **a)** Holometabolous metamorphosis **b)** Eucoelom **c)** Protostomia

**III. Answer any two of the following** **5X2=10Marks**

9. Describe the life cycle of Obelia
10. Explain the Male reproductive system of leech
11. Mention the general characteristics of Anelida
12. Explain the larval forms of Echinodermata

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# SAHYADRI SCIENCE COLLEGE
# DEPARTMENT OF ZOOLOGY I SEMESTER
# II INTERNALS PAPER-I (2018-19)

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**I. Answer any five of the following** **4X1=4Marks**

**1.** What is synsacram?

**2.** What is Hemichordata?

**3.** What is retrogressive metamorphosis?

**4.** Define Agnatha.

**II. Answer any two of the following** **3X2=06Marks**

**5.** Classify amphibia with example

**6.** Write the difference between osteichthyes and chondrichthyes

**7.** Draw a labeled diagram of urinogenital system of frog.

**8.** Write a brief note on wetland birds.

**III. Answer any two of the following** **5X2=10Marks**

**9.** Describe the respiratory structure of shark

**10.** Explain the general characteristics of Aves.

**11.** Explain the general characteristics of Pisces.

**12.** Explain the Affinities of Hemichordata.

## SAHYADRI SCIENCE COLLEGE

## DEPARTMENT OF ZOOLOGY II SEMESTER

## II INTERNALS PAPER-I (2018-19)

**I. Answer any five of the following** **4X1=4Marks**

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1. What is Homodont?

2. Define Metanephrous kidney

3. Give example for Impennae.

4. Name the larval form of Myxine.

**II. Answer any two of the following** **3X2=06Marks**

5. Classify reptiles upto orders with example

6. Write the difference between archaeornithes and neornithes.

7. Draw a neat labeled diagram of mammalian tooth.

8. Write a brief note on Poisonous and non poisonous snake..

**III. Answer any two of the following** **5X2=10Marks**

9. Describe the beak and feet modification in birds.

10. Explain the digestive system of Rabbit.

11. Explain the general characteristics of Mammals.

12. Explain the comparative account on Aves and Mammalian Heart..

**SAHYADRI SCIENCE COLLEGE**
**DEPARTMENT OF ZOOLOGY III SEMESTER**
**I INTERNALS PAPER-II (2018-19)**

**I. Answer any five of the following** **4X1=4Marks**

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# SAHYADRI SCIENCE COLLEGE
# DEPARTMENT OF ZOOLOGY I SEMESTER
# I INTERNALS PAPER-I (2019-20)

**I. Answer the following** **4X1=4Marks**

**1.** Mention the disease caused by the Taenia solium.

**2.** Give an example for fresh water sponge.

**3.** Mention the disease caused by the plasmodium vivox.

**4.** Define bilateral symmetry.

**II. Answer any two of the following** **3X2=06Marks**

**5.** Classify porifera with examples.

**6.** Mention the salient features of platyhelminthes.

**7.** Write a note on asexual reproduction in protozoa.

**8.** Describe the structure of antennules of penaus.

**III. Answer any two of the following** **5X2=10Marks**

**9.** Mention the general characters of phylum protozoa.

**10.** Describe the life cycle of Taenia solium.

**11.** What is canal system? Explain sycon and rhagon type of canal system.

**12.** Explain characters of phylum arthropoda.

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# SAHYADRI SCIENCE COLLEGE
# DEPARTMENT OF ZOOLOGY I SEMESTER
# II INTERNALS PAPER-I (2019-20)

**I. Answer the following** **4X1=4Marks**

1. What is hemimetabola.

2. What is hirudin?

3. Give an example for pseudocoelom.

4. What is metagenesis?

**II. Answer any two of the following** 3X2=06Marks

5. Draw a labeled diagram of male reproductive system of leech.

6. Classify coelenterata with example.

7. Write a note on serial homology.

8. Define with example a) Spherical symmetry b) Acoelom c) True metamerism.

**III. Answer any two of the following** 5X2=10Marks

9. Describe the lifecycle of obelia.

10. Explain the digestive system of penaus.

11. Write the rules of zoological nomenclature.

12. Mention the general characters of Annelida.

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**SAHYADRI SCIENCE COLLEGE**
**DEPARTMENT OF ZOOLOGY II SEMESTER** **I**
**INTERNALS PAPER-II (2019-20)**

**I. Answer the following** **4X1=4Marks**

**1.** What is Neotony?

2. What is synsacrum?

3. Name the larva of petromyzon.

4. What is urochordata?

**II. Answer any two of the following** **3X2=06Marks**

5. Write a note on morphology of amphioxus.

6. Classify Amphibia with an example each.

7. Mention the salient features of Aves.

8. Explain three unique features of phylum chordate.

**III. Answer any two of the following** **5X2=10Marks**

9. Mention the general characters of reptilia.

10. Explain the retrogressive metamorphosis.

11. Explain the flight adaptaion of birds.

12. List the characters of cyclostomata.

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**SAHYADRI SCIENCE COLLEGE**
**DEPARTMENT OF ZOOLOGY II SEMESTER**
**II INTERNALS PAPER-II (2019-20)**

**I. Answer the following** **4X1=4Marks**

**1.** What is Cloaca?

2. What are fossils?

3. What is diastema?

4. What is double circulation?

**II. Answer any two of the following** **3X2=06Marks**

5. List the characters of chondricthyes.

6. Write a short note on Hyracotherium or Eiohippus

7. Write a note on wetland birds with an examples.

8. Classify the mammals with an example each..

**III. Answer any two of the following** **5X2=10Marks**

9. Explain the digestive system of shark.

10. Explain the types of fossils.

**11.** Explain the comparative account on fish and amphibian heart.

**12.** Mention the general characters of mammals.

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**DEPARTMENT OF ZOOLOGY III SEMESTER** **I**
**INTERNALS PAPER-III (2019-20)**

**I. Answer any five of the following** **4X1=4Marks**

1. What is latitudinal migration?
2. Define Ethology.
3. What is Natality?
4. State first law of thermodynamics.

II. Answer any two of the following 3X2=06Marks

5. Define: a) Food chain b) Ecosystem c) Food web.
6. Mention the advantages of bird migration.
7. Explain gause's principle.
8. Explain Innate behaviour.

III. Answer any two of the following 5X2=10Marks

9. Explain catadromous migration with suitable example.
10. Describe J&S shaped curve.
11. Explain the functions of Territoriality.
12. Explain briefly ecological pyramids.

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Kuvempu University
Sahyadri Science College, Shivamogga
Department of Geology.

Time:1 hour I Semester B.Sc., II Internal test-2018-19 Max.Mark:20

Paper I: General geology crystallography and mineralogy

I. Answer the following question in a word or sentence 4x1-4

1. Define Plate tectonics
2. How many axes are there in Hexagonal Crystal System?
3. What is the Hardness of Quartz?
4. What is the age of earth according to radioactive method?

II. Short Answer question: Answer any Three Question of the following 2x3-6

1. Convergent and divergent boundary
2. Axial and symmetry character of Orthorhombic crystal system.
3. Determination of age of the earth by Uranium lead and thorium lead method.
4. Holohedral forms of Isometric crystal system.

III. Long Answer question: Answer any Two Question of the following 5x2-10

1. Describe in brief about the earth interior.
2. Explain the origin of continents and oceans
3. Describe magnetic and electric properties of minerals.

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Sahyadri Science College, Shivamogga
Department of Geology.

Time:1 hour I Semester B.Sc., I Internal test-2018-19 Max.Mark:20

I. Answer the following question in a word or sentence 4x1-4

1. Which is the brightest planet in solar system?
2. What is Pangaea?
3. Define Crystal
4. Define Mineral

II. Short Answer question: Answer any Three Question of the following 3x2-6

1. Continental Self Zone
2. Lustre and its types.
3. Basic geology branches
4. Elements of crystal and Euler's formula.

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III. Long Answer question: Answer any Two Question of the following 5x2-10

1. Describe sun and inner planets.
2. What is Isostacy? Explain Airy concept of Isostacy.
3. Describe Axial and Symmetry characters in Isometric and tetragonal crystal System.

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**KUVEMPU UNIVERSITY**
**Department of Geology**
**Sahyadri Science College, Shivamogga**

**II Semester II Internal Test MAR-2019**

**Geomorphology Structural Geology and Optical Mineralogy**

Time: 1hour Max Marks:20

I. Answer the following in a **word** or **sentance** or **pharce** 1x4=4

1.Define Icelandspar
2.What is mass wasting?
3.Define joint set.
4.Wahat is fault.?

I I.Medium answer question-Answer any **Three** of the following. 3x2=6

5.Total internal refraction
6. Meander.
7.Elements of Fault
8.Importance of joints

I I.Long answer question-Answer any **Two** of the following. 2x5=1

9. Construction of Nichol prism.
10.Geological actin of river.
11. Types of Fault based on attitude and apparent movement
12.Classification of Joints based on Geometrical

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**KUVEMPU UNIVERSITY**
**Department of Geology**
**Sahyadri Science College, Shivamogga**

**II Semester II Internal Test MAR-2019**

**Geomorphology Structural Geology and Optical Mineralogy**

Time:1hour Max Marks:20

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Department of Geology.

Time: 1 hour V Semester B.Sc., II Internal test Max.Mark:20

VI paper: Engineering Geology and Mining geology

I. Answer the following question in a word or sentence 4x1-4

1. What is absorption value?
2. What is plucking the eye?
3. What is Stopping?
4. What is the compressive strength of gneiss?

II. Short Answer question: Answer any Three Question of the following 2x3-6

1. Building stone of granite
2. Glory Hole
3. Scrapers
4. Derrick and cable way

III. Long Answer question: Answer any **Two** Question of the following 5x2-10

1 .Describe different types of dam
2. Power shovel and drag line?
3. Describe Brest stopping, open over hand and under hand stopping.

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Department of Geology.

Time:1 hour I Semester B.Sc., I Internal test-2018-19 Max.Mark:20

I. Answer the following question in a word or sentence 4x1-4

1. Which is the brightest planet in solar system?
2. What is Pangaea?
3. Define Crystal
4. Define Mineral

II. Short Answer question: Answer any Three Question of the following 2x3-6

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2. Lustre and its types.
3. Basic geology branches
4. Elements of crystal and Euler's formula.

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Department of Geology.

Time: 1 Hr III B.Sc., V Semester, Paper-V I Internal Test Aug 2019-20 Max.Mark:20I.

Answer the following question in a word or sentence 4x1-4

1. What is Ore Mineral?
2. What is the Ore Mineral of Aluminum?
3. In which rock Chromium ore occur?
4. What is Hydrogeology?

II. Short Answer question: Answer any Three Question of the following 2x3-6

1. Essential and strategic mineral
2. Explain the forms of precipitation
3. Kolar and Hutti Gold Field
4. Ore minerals of copper

III. Long Answer question: Answer any **Two** Question of the following 5x2-10

1 .What are early magmatic deposits And explain the early magmatic deposits
2. Describe the Hydrological Cycle with neat sketch.
3. Describe the production and distribution of copper deposits of the world and India
4. Describe the Production and distribution of Aluminum deposits of the world and India

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SAHYADRI SCIENCE COLLEGE SHIVAMOGGA

DEPARTMENT OF GEOLOGY

II SEM B.Sc Geology IST IA Test Feb-2020

Paper: I Geomorphology, Structural Geology and Optical Geology

Time: 1 Hr Max.Marks:20

I. Simple answer questions: 1x4=04

1. What is optic axis?
2. What is a map?
3. What is a fold?
4. Define Geomorphology.

II. Medium Answer question: Answer any THREE 3x2=6

1. Laws of reflection.
2. Tension and compression.
3. Dip and Strike
4. Mensin one concept of geomorphology.

III. Long Answer questions: Answer any TWO 2x5=10

1. Double Reflection
2. What is Unconformity? And describe types of unconformity.
3. Explain the classification of geomorphic processes.
4. Describe Primary Structures.

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SAHYADRI SCIENCE COLLEGE SHIVAMOGGA

DEPARTMENT OF GEOLOGY

VI SEM B.Sc Geology IST IA Test Feb-2020

Paper: VIII Remote Sensing and Field Geology

Time: 1 Hr Max.Marks:20

I. Simple answer questions: 1x4=04

1. What is Field Geology?
2. Define aerial remote sensing?
3. Define focal length?
4. What is scale of aerial photography?.

II. Medium Answer question: Answer any THREE 3x2=6

1. Topographical and geological map.
2. Advantage of aerial photography.
3. Types of aerial photography according to camera axis
4. Problems in aerial photography.

III. Long Answer questions: Answer any TWO 2x5=10

1. Describe compass clinometers and its uses
2. Describe flight plan procedures.
3. Explain Single lens frame camera.
4. Types of photography according to film, filter and equipments

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DEPARTMENT OF GEOLOGY

IV SEM B.Sc Geology IST IA Test Feb-2020

Paper: IV: Palaeontology and Stratigraphy

Time: 1 Hr Max.Marks:20

I. Simple answer questions: 1x4=04

1. What is Ligament of lamellibranches?
2. What is the age of Dharwar super group?
3. Define bed.
4. Define Fossil.

II. Medium Answer question: Answer any two 2x3=6

1. Order of superposition.
2. Brachial skeleton
3. Types of fossil

III. Long Answer questions: Answer any TWO 2x5=10

1. Peninsular gneiss
2. Physiographic division of India
3. Describe different modes of preservation of Fossil.
4. Describe with neat sketches phylum Coelenterata

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DEPARTMENT OF GEOLOGY

VI SEM B.Sc Geology IInd IA Test Sep-2021

Paper: VIII Remote Sensing and Field Geology

Time: 1 Hr Max.Marks:20

I. Simple answer questions: 1x4=04

1. What is SWATH?
2. What are stereo pairs?
3. What is GIS?
4. What is the altitude of geostationary satellite?

II. Medium Answer question: Answer any Two 2x3=6

1. Problems in aerial remote sensing.
2. Plat forms and orbits
3. Field studies as a scientific method

III. Long Answer questions: Answer any TWO 2x5=10

1. Describe the basic field equipments for field survey
2. Explain Energy integration with the atmosphere
3. Explain geometric principles of aerial remote sensing.
4. Describe single lens frame camera with fig

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DEPARTMENT OF GEOLOGY

II SEM B.Sc Geology IInd IA Test Aug-2021

Paper: I Geomorphology, Structural Geology and Optical Geology

Time: 1 Hr Max.Marks:20

I. Simple answer questions: 1x4=04

1. Define Icelandspar.
2. Define weathering.
3. Define structure.
4. Define geomorphology?

II. Medium Answer question: Answer any two 3x2=6

1. Laws of refraction
2. Geomorphic Processes.
3. Attitude f beds

III. Long Answer questions: Answer any TWO 2x5=10

1. Total internal reflection and critical angle
2. Describe the types of Physical Weathering.
3. Describe deferent types of mass wasting.
4. Explain primary structure of rocks.

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