



KUVEMPU UNIVERSITY
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TOPICS FOR INTERNAL ASSESSMENT ASSIGNMENTS - 2009-10

Course: **B.Sc. First Year (PCM & CBZ)**

General Note: Students are advised to read the separate enclosed instructions before beginning the writing of assignments.

Part I: Topics in Language Papers

Note 1: Students to submit IAs of **TWO** Language Papers, which they have chosen at the time of admission to the Course - among them one should be English.

2. Out of 20 internal IA marks per **Language Paper**, 5 marks are earmarked for the attendance of the student at the Counseling/ Contact/ Programme. Therefore, the topics given below are only for 15 marks each paper.

ಕನ್ನಡ

(ಭಾಷಾ ಪತ್ರಿಕೆ)

1. ಬೆಳಗು, ಮುಂಬೈ ಜಾತಕ, ಮನೆಯಿಂದ ಮನೆಗೆ - ಕವಿತೆಗಳ ವಸ್ತು ಹಾಗೂ ಧೋರಣೆಗಳನ್ನು ಕುರಿತು ಬರೆಯಿರಿ. 10 ಅಂಕಗಳು
2. 'ಶೂದ್ರ ತಪಸ್ವಿ' ನಾಟಕವನ್ನು ವೈಚಾರಿಕ ಹಿನ್ನೆಲೆಯಲ್ಲಿ ಚರ್ಚಿಸಿ. 05 ಅಂಕಗಳು

ENGLISH

(Language Paper)

1. Explain 'Animal Farm' as a fable and satirical novel, describing the different symbols and their significance in the novel. 10 Marks
2. What Character of Ulysses can you gather from his monologue? 05 Marks

हिन्दी (भाषा) HINDI (Language Paper)

1. जैनेंद्र जी की कहानी 'एक गौ' की समीक्षा कीजिए । 10 Marks
2. कवि हरिवंशराय बच्चन पर एक आलोचनात्मक निबन्ध लिखिए । 05 Marks

SANSKRIT

(Language Paper)

1. Write an essay on **Utthara Gograhana**. 10 Marks
ಉತ್ತರ ಗೋಗ್ರಹಣದ ಬಗ್ಗೆ ಒಂದು ಪ್ರಬಂಧವನ್ನು ಬರೆಯಿರಿ.
2. ಲಘು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ : ಸೀತೆಯ ವಿಷಯದಲ್ಲಿ ಅಪವಾದ. 05 Marks

Write a Short Note: ಸೀತಯ:ವಿಷಯಂ ಪರಿವಾದ:

URDU

(Answer both the topics. Topic 1 carries 10 marks and topic 2 carries 5 marks)

- ① افسانہ "گفتی" کا محاسبہ کیجیے
- ② نظم "صدیق" کا ماہر ابنی الفاظ میں بیان کیجیے

Part II: Topics in Optional Papers

- Note:** 1. Students to submit Internal Assignments of **THREE Optional Papers** (PCM or CBZ) in accordance with the combination opted by them.
2. Out of 15 Internal Assignment marks per **Optional Paper**, 5 marks are earmarked for the attendance of the student at the Counseling/ Contact/ Practical Programme. Therefore, the topics given below are only for 10 marks each paper. Also note that for Mathematics paper IA marks are 30 and hence topics are given for 25 marks.

PHYSICS

Topic Number	Answer all Topics	Marks
1.	Obtain the expression for depression of the free end of a single cantilever when loaded at its free end.	05
2.	Calculate the change of entropy when 0.125 kg of ice at 0 ⁰ C is converted into steam at 100 ⁰ C. Assume the specific latent heat of ice and steam to be 3.36 x 10 ⁵ J/kg and 2.27 x 10 ⁶ J/kg and specific heat of water to be 4200 J/kg/K.	05

MATHEMATICS

Topic Number	Answer ALL the questions, each question carries FIVE marks	5x5=25 Marks
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- 1) If $y = e^{\tan^{-1} x}$
show that $(1 + x^2)y_{n+2} + [2(n+1)x - 1]y_{n+1} + n(n+1)y_n = 0$.
- 2) Obtain the parametric equations of the following lines
- a) $2x - y - z = 0$
b) $7x + 10y - 8z = 0$
- 3) Find the area bounded by the parabola $y^2 = 4x$ and the line $y = 2x - 4$.

4) Solve

$$x_1 + 2x_2 + 3x_3 + 4x_4 = 0$$

$$x_1 + x_2 + 4x_3 + 6x_4 = 0$$

$$x_1 + 2x_2 - x_3 + 7x_4 = 0$$

5) Evaluate

$$\text{a) } \int_0^1 x^2 (1 - x^2)^{3/2} dx$$

$$\text{b) } \int_0^{\infty} \frac{x^2}{(1 + x^2)^{7/2}} dx$$

CHEMISTRY

Topic Number	<i>Answer all Questions</i>	Marks
1.	(a) State Raults law. (b) Explain the mechanism of chlorination of methane	05
2.	(a) State Heisenberg's uncertainty principle. (b) Discuss the significance of Quantum numbers.	05

BOTANY

Topic Number	<i>Answer all Questions. Draw diagrams wherever necessary.</i>	Marks
1.	Write a note on types of stele present in Pteridophytes with neat labeled diagrams.	05
2.	Describe transduction and transformation process in Bacteria with appropriate labeled diagrams.	05

ZOOLOGY

Topic Number	<i>Answer all Questions. Draw diagrams wherever necessary.</i>	Marks
1.	Describe the salient features of Phylum arthropoda and classify them up to order with example.	05
2.	Describe the Life Cycle of <i>Fasciola hepatica</i> or liver fluke.	05

Part III: Topics in Mandatory Paper

Note: Out of 20 Internal Assignment marks of Mandatory Paper, 5 marks will be awarded for regularity (attendance) to Counseling/ Contact Programme classes pertaining to the paper. Therefore, the topics given below are only for 15 marks.

ಪರಿಸರ ವಿಜ್ಞಾನ / ENVIRONMENTAL SCIENCE

(Answer all Topics)

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| 1. ಅಣುವಿಕಿರಣ ಮಾಲಿನ್ಯ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ. | 05 Marks |
| 2. ಮಣ್ಣಿನ ಸವಕಳಿ ಮತ್ತು ನಿಯಂತ್ರಣವನ್ನು ಕುರಿತು ಬರೆಯಿರಿ. | 05 Marks |
| 3. ವನ್ಯಜೀವಿಯ ಪ್ರಾಮುಖ್ಯತೆ ಹಾಗೂ ಅದರ ನಿರ್ವಹಣೆಯ ಕುರಿತು ಸಂಕ್ಷಿಪ್ತವಾಗಿ ವಿವರಣೆ ನೀಡಿ. | 05 Marks |
| 1. Give a brief account on Radioactive Pollution. | 05 Marks |
| 2. Write a note on soil erosion and control measures. | 05 Marks |
| 3. Explain the importance of wildlife and add a note on Wildlife Management. | 05 Marks |
