



KUVEMPU UNIVERSITY
OFFICE OF THE DIRECTOR
DIRECTORATE OF DISTANCE EDUCATION



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TOPICS FOR INTERNAL ASSESSMENT ASSIGNMENTS (2016-17)
B.Sc. Second Year (PCM & CBZ)

General Note: Students are advised to read the separate enclosed instructions regarding submission of Internal Assessment Assignments.

Part I: Topics in Language Papers

(Students to submit IAs of TWO Language Papers, (among them one should be English) which they have chosen at the time of admission to the Course.)

ಕನ್ನಡ (ಭಾಷಾ ಪತ್ರಿಕೆ)

1. 'ಅಬಚೂರಿನ ಪೋಸ್ಟಾಫೀಸು' ಕಥೆಯಲ್ಲಿ ಚಿತ್ರವಾಗಿರುವ ಬೊಬಣ್ಣನ ಬದುಕಿನ ದುರಂತವನ್ನು ಕುರಿತು ಬರೆಯಿರಿ. 10 marks
2. ತುಘಲಕ್ ಒಂದು ವಿಡಂಬನಾತ್ಮಕ ನಾಟಕ ಹೇಗೆ? ಚರ್ಚಿಸಿ. 05 marks

ENGLISH (Language Paper)

1. How does John Keats bring out the conflict between Art and Life in the poem *Ode on a Grecian Urn*? Comment. 10 Marks
2. Comment on the significance of the opening scene in William Shakespeare's *Julius caesar* 05 Marks

HINDI (Language Paper)

1. राष्ट्रभाषा और राजभाषा पर एक आलोचनात्मक लेख लिखिए। 10 Marks
2. अनुवाद; शिल्प, कला या विज्ञान? चर्चा कीजिए। 05 Marks

SANSKRIT (Language Paper)

१. नागानन्द नाटकस्य कर्तु विशये प्रबन्धं रचयत ? - १० अंकः

१. नागानन्द नाटकದ ಕರ್ತೃವಿನ ಬಗ್ಗೆ ಬರೆಯಿರಿ ? - १० ಅಂಕಗಳು

२. शंकचूक्स्य पात्रचित्रणं कुरुत ? - ०५ अंकाः

२. ಶಂಖಚೂಡನ ಪಾತ್ರ ಚಿತ್ರಿಸಿ ? - ०५ ಅಂಕಗಳು

URDU (Language Paper)

10 Marks

(۱) احسان منزل میں روایت شکنی اور انقلاب کی نوعیت کیسی تھی؟ تحریر کیجئے۔

5 Marks

(۲) نظم ”ایٹ انڈیا کمپنی کے فرزندوں سے“ کا خلاصہ اپنے الفاظ میں قلم بند کیجئے۔

Part II: Topics in Optional Papers

Notes:

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. (For Mathematics paper 25 marks)

Topic Number	PHYSICS <i>Answer all Topics</i>	Maximum 10 Marks
1.	Give the theory of diffraction grating for an oblique incidence.	05 Marks
2.	Derive an expression for self inductance of a coil using Anderson's method using j operator.	05 Marks

Topic Number	CHEMISTRY <i>Answer all Topics</i>	Maximum 10 Marks
1.	What are electrolytes ? Explain Asymmetry effect and Electrophoretic effect of strong electrolytes.	05 Marks
2.	Explain Arrhenius collision theory of reaction rates.	05 Marks

Topic Number	MATHEMATICS <i>Answer all Topics</i>	Maximum 25 Marks
1.	Solve $\frac{d^3y}{dx^3} - \frac{d^2y}{dx^2} - \frac{dy}{dx} + y = e^x(1 + \sin x)$	05 Marks
2.	Show that the family of curves $\frac{x^2}{a^2+\lambda} + \frac{y^2}{b^2+\lambda} = 1$, where λ is a parameter, is a self orthogonal .	05 Marks
3.	Using the function $f(x) = \tan^{-1} x$ show that $\frac{b-a}{1+b^2} < \tan^{-1} b - \tan^{-1} a < \frac{b-a}{1+a^2}$ where $0 < a < b$.	05 Marks
4.	Show that the sequence $x_n = 1 + \frac{1}{1!} + \frac{1}{2!} + \dots + \frac{1}{n!}$ is convergent.	05 Marks
5.	Discuss the convergence of the series $\sum \frac{1 \cdot 5 \cdot 9 \dots (4n-3)}{3 \cdot 7 \cdot 11 \dots (4n-1)}$	05 Marks

Topic Number	BOTANY <i>Answer all Topics</i>	Maximum 10 Marks
1.	Explain Secondary Growth in Dicot Root and Stem with suitable Diagrams	05 Marks
2.	Explain Megasporogenesis with neat labeled Diagrams	05 Marks

Topic
Number

ZOOLOGY

Answer all Topics

Maximum
10 Marks

1. Explain TCA cycle. 05 Marks
2. Define bioluminescence. Explain its Types and mechanism of light production. Add a note on its significance. 05 Marks

Part III: Topics in Compulsory Paper

Topic
Number

ಭಾರತದ ಸಂವಿಧಾನ / INDIAN CONSTITUTION

Answer all Topics

Maximum
15 Marks

1. Discuss the powers and functions of the Governor of state.
ರಾಜ್ಯಪಾಲರ ಅಧಿಕಾರ ಮತ್ತು ಕಾರ್ಯಗಳನ್ನು ಚರ್ಚಿಸಿ. 10 ಅಂಕಗಳು
2. What is Rule of Law? Explain.
ಕಾನೂನಿನ ಅಧಿಪತ್ಯ ಎಂದರೇನು? ವಿವರಿಸಿ. 05 ಅಂಕಗಳು
