

INTERNAL ASSIGNMENT QUESTIONS
B.A.(Maths & Stats) II YEAR

ANNUAL - 2024-25



PROF. G. RAM REDDY CENTRE FOR DISTANCE EDUCATION
(RECOGNISED BY THE DISTANCE EDUCATION BUREAU, UGC, NEW DELHI)

OSMANIA UNIVERSITY

(A University Accredited with A+ by the NAAC - A University with Potential for Excellence,
Hyderabad – 7 Telangana State)

DIRECTOR
Prof. G.B. Reddy
Hyderabad – 7, Telangana State

PROF.G.RAM REDDY CENTRE FOR DISTANCE EDUCATION
OSMANIA UNIVERSITY, HYDERABAD – 500 007

Dear Students,

Every student of B.A. (Maths & stats) II year has to write and submit **Assignment** for each paper compulsorily. ***Statistics Assignment papers carries 20 marks and *Maths & Applied Mathematics Assignment papers carries 30 marks.** The marks awarded to the students will be forwarded to the Examination Branch, OU for inclusion in the marks memo. If the student fail to submit Internal Assignments before the stipulated date, the internal marks will not be added in the final marks memo under any circumstances. The assignments will not be accepted after the stipulated date. **Candidates should submit assignments only in the academic year in which the examination fee is paid for the examination for the first time.**

NOTE: THE SUPPLEMENTRY CANDIDATES PAYING THEIR EXAMINATION FEE FOR THE FIRST TIME ARE ONLY ELGIBLE TO WRITE AND SUBMIT THEIR ASSIGNMENTS. THE CANDIDATES WHO PAID EXAMINATION FEE EARLIER AND NOT SUBMITTED THEIR ASSIGNMENT ARE NOT ELIGIBLE TO SUBMIT THEIR ASSIGNMENTS NOW.

Candidates are required to submit the Exam fee receipt along with the assignment answers scripts at the concerned counter on or before **05-03-2025** and obtain proper submission receipt.

ASSIGNMENT WITHOUT EXAMINATION FEE PAYMENT RECEIPT (ONLINE) WILL NOT BE ACCEPTED

Assignments on Printed / Photocopy / Typed will not be accepted and will not be valued at any cost. Only HAND WRITTEN ASSIGNMENTS with blue pen will be accepted and valued.

Methodology for writing the Assignments (Instructions) :

1. First read the subject matter in the course material that is supplied to you.
2. If possible read the subject matter in the books suggested for further reading.
3. You are welcome to use the PGRRCDE Library on all working days for collecting information on the topic of your assignments. (10.30 am to 5.00 pm).
4. Give a final reading to the answer you have written and see whether you can delete unimportant or repetitive words.
5. The cover page of the each theory assignments must have information as given in FORMAT below.

FORMAT

1. NAME OF THE STUDENT :
2. ENROLLMENT NUMBER :
3. NAME OF THE COURSE :
4. NAME OF THE PAPER :
5. DATE OF SUBMISSION :
6. Write the above said details clearly on every subject assignments paper, otherwise your paper will not be valued.
7. Tag all the assignments paper wise and submit them in the concerned counter.
8. Submit the assignments on or before **05-03-2025** at the concerned counter at PGRRCDE, OU on any working day and obtain receipt.

DIRECTOR

B.A. II YEAR

INTERNAL ASSIGNMENT - ANNUAL 2025

Subject : General in English

Section – A

UNIT – I : Answer the following short questions (each question carries two marks) 5x2=10

1. What is Emotional Intelligence?
2. What are the perspectives of Shaw that expressed in the lesson “Spoken English and Broken English”?
3. How the king was answered to his three questions in the lesson Leo Tolstoy’s “Three Questions” .
4. What do you understand about the caged bird singing in the poem “I know why the caged Bird sing” by Maya Angelou.
5. Describe briefly the Central Character Selvi in the short story by RK Narayan.

Section – B

UNIT – II : Answer the following Questions (each question carries Five marks) 2x5=10

1. How does Skavinski get the job as a light house keeper in Aspin Wall ?
2. What is the melancholy expressed by Arnold in his poem, “Dover Beach” and what is the proposed solution to human misery according to poet.

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INTERNAL ASSIGNMENT- 2024 - 2025

Course : B.A., B.Com. & B.B.A. II year

Paper : తెలుగు Title : తెలుగు Year 2nd

Section - A

UNIT - I : Answer the following short questions (each question carries two marks) 5x2=10

- 1 పాల్వరికి పోకునాడు
- 2 సురజుడు అప్పారావు
- 3 కౌటవి నాపరాజు
- 4 ఝునాథ నాయకుడు
- 5 అంశుభాగా

Section - B

UNIT - II : Answer the following Questions (each question carries Five marks) 2x5=10

- 1 మన సంసారం నాడుక నారాధం, ఈ నాడుకం సమాజానికి ఇచ్చే సందేశాన్ని తెలుపండి.
2. "కుచేలీ వాల్మీకి" పాత్ర అగ సారాంశాన్ని రాయండి.

Name of the Faculty : Dr. P. Hamsamma .

Dept. Telugu.

INTERNAL ASSIGNMENT- 2024 - 2025

Course : B.A., B.Com. & B.B.A. II year

Paper : II Title : HINDI (SL) Year 2024

Section – A

UNIT – I : Answer the following short questions (each question carries two marks) 5x2=10

- 1 कबीरदास के अनुसार साधु का स्वभाव कैसा होना चाहिए और क्यों ?
- 2 कवि रहीम ने सज्जन या उत्तम प्रकृति के लोगों की तुलना किससे की है ?
- 3 कवि बिहारी ने कलक के दो अर्थ क्या बताए हैं ?
- 4 तुलसीदास के अनुसार मुखिया को कैसा होना चाहिए और क्यों ?
- 5 कवि निराला ने इलाहाबाद के सड़क पर किसे देखा और उसकी दशा कैसी है ?

Section – B

UNIT – II : Answer the following Questions (each question carries Five marks) 2x5=10

- 1 आदि काल की प्रवृत्तियों (विशेषताओं) पर प्रकाश डालिए ।
2. मातृभूमि कविता का सारांश लिखिए ।

Name of the Faculty : K. DATTATRAYA

Dept. HINDI

INTERNAL ASSIGNMENT- 2024 - 2025

Course : B.A., B.Com. & B.B.A. II year

Paper : II Title : SANSKRIT Year 2024-2025

Section - A

UNIT - I : Answer the following short questions (each question carries two marks) 5x2=10

- 1 अन्वय - वृत्तं आरुह्याः कापि लीलाकृतिरियम् ।
- 2 अन्वय - मातृदेवो भव ।
- 3 अनन्वयालङ्कारस्य लक्ष्यलक्षणं विवृणुत ।
- 4 कौटिल्यः - कवेः परिचयं लिखत ।
- 5 'पद्य' इति शब्दस्य सर्वास्तु विभक्तिषु वचनैः पुनर्लिखत ।

Section - B

UNIT - II : Answer the following Questions (each question carries Five marks) 2x5=10

- 1 प्रजापतिः देव - अणुफय - अस्तुरान किमुपादिशत ? तस्य प्राधान्यं किम् ? विवृणुत ।
- 2 दूतैः श्लोकैः प्रतिपदार्थं तादार्थं च लिखत । 2x2½ = 5

प) अपौष्ट्यामटकीश्रुतां पित्रा आत्तु - पवर्जितम् ।
पित्राश्चात्तौऽनुष्वावामि क्षीणतोर्यां नदीमिव ॥

Name of the Faculty : Dr. R. Varalakshmi

ब) गौपहीना यथा गावो विकल्पं
यान्मुपात्मिताः। Dept. Sanskrit
मुवं वृपतिहीना हि विकल्पं वै प्रजाः।

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INTERNAL ASSIGNMENT- 2024 - 2025

Course : B.A., B.Com. & B.B.A. II year

Paper : ARABIC Title : U4-Ilm. Year II^{ya}.

Section – A

UNIT – I : Answer the following short questions (each question carries two marks) 5x2=10

1. أين ذهب أبو البراء؟
2. أين بيت المدير؟
3. كم طالباً في فصل أحمد؟
4. أي سورة حفظ سعيد؟
5. من فتح النوافذ؟

Section – B

UNIT – II : Answer the following Questions (each question carries Five marks) 2x5=10

1. تدوين القرآن الكريم
2. أفعال ناقصة

Name of the Faculty : Dr Mohel Abdul
Muqtadir Hassan
Dept. O.U

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INTERNAL ASSIGNMENT- 2024 - 2025

Course : B.A., B.Com. & B.B.A. II year

Paper : II (URDU) Title : MUTALA-E-ADAB PART - II Year II

Section – A

UNIT – I : Answer the following short questions (each question carries two marks) 5x2=10

- 1 (1) صنفِ "مثنوی" کی تعریف کیجئے۔
- 2 (2) "قصیدہ" کے اجزاء تحریر کیجئے۔
- 3 (3) "داستان" کسے کہتے ہیں؟
- 4 (4) "رباعی" کی تعریف کیجئے اور شامل نصاب کسی ایک رباعی کی تشریح کیجئے۔
- 5 (5) مولانا ابوالکلام آزاد کے سوانحی حالات قلم بند کیجئے۔

Section – B

UNIT – II : Answer the following Questions (each question carries Five marks) 2x5=10

- 1 (1) مرثیہ کی تعریف کرتے ہوئے "گرمی کا سماں" کا خلاصہ اپنے الفاظ میں پیش کیجئے۔
- 2 (2) مضمون "مردہ بدست زندہ" میں فرحت اللہ بیگ نے فی زمانہ مہبتوں کے ساتھ ہونے والے سلوک اور لوگوں کی ریچ کاری کا نقشہ کس انداز میں کھینچا ہے؟

Name of the Faculty :

Dr. MOHD MUSHTAQ AHMED

Dept. _____ URDU

INTERNAL ASSIGNMENT QUESTION PAPER - 2023-24

COURSE : B.A.(Maths & Applied Maths) II year

Paper : II Subject : Statistical Methods Year
and Inference

Total Marks: 30

Section - A

UNIT - I: Answer the following short questions (each question carries three marks) $5 \times 3 = 15$

- 1 Define partial and Multiple Correlation Coefficient.
- 2 State and prove addition theorem of expectation.
- 3 Write the test procedure for testing the goodness of fit.
- 4 Explain the test procedure for randomness.
- 5 Two random variables X and Y have joint Pdf,
 $f(x,y) = \begin{cases} K(4-x-y) & 0 \leq x \leq 2, 0 \leq y \leq 2 \\ 0 & \text{otherwise} \end{cases}$

Find (i) K , (ii) Marginal density function of X and Y , (iii) $Cov(X, Y)$.

Section - B

UNIT - II: Answer the following Questions (each question carries Five marks) $3 \times 5 = 15$

- 1 Derive the relation between t and F distribution.
- 2 Show that $\frac{\sum x_i (\sum x_i - 1)}{n(n-1)}$ is an unbiased estimate
- 3 of θ^2 for the sample x_1, x_2, \dots, x_n drawn on X which takes values 1 or 0 with probabilities θ and $(1-\theta)$.

Name of the Faculty : Dr. P. Mounika

Dept. Statistics

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INTERNAL ASSIGNMENT QUESTION PAPER - 2023-24

COURSE : B.A.(Maths & Applied Maths) II year

Paper : II Subject : Mathematics Year II

Total Marks: 30

Section - A

UNIT - I : Answer the following short questions (each question carries three marks) $5 \times 3 = 15$

- 1 Find the equation of the plane through the points $P(2, 2, -1)$, $Q(3, 4, 2)$, $R(7, 0, 6)$
- 2 Find the image of the point $P(1, 3, 4)$ to the plane $2x - y + 2z = 0$.
- 3 Find the equation of the cylinder whose generators are parallel to $\frac{x}{1} = \frac{y}{-2} = \frac{z}{3}$
- 4
- 5 Show that a Cauchy sequence of real numbers is bounded.
Prove that $\sum_{n=1}^{\infty} \frac{1}{n(n+1)}$ converges

Section - B

UNIT - II : Answer the following Questions (each question carries Five marks) $3 \times 5 = 15$

- 1 State and prove Bolzano - Weierstrass theorem
- 2 Find the condition that the lines of intersection of the plane $lx + my + nz = 0$ and cones $fy^2 + gzx + hxy = 0$, $ax^2 + by^2 + cz^2 = 0$ should be coincident.
- 3 Find the eqn. of the sphere through the points $(0, 0, 0)$, $(0, 1, -1)$, $(-1, 2, 0)$ and $(1, 2, 3)$.

Name of the Faculty : DR. RAVIS

Dept. Mathematics

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INTERNAL ASSIGNMENT 2024-2025

Course: BA (Maths & Stats),

Paper: II

Title: Applied Mathematics

Year: II Year

Section-A

Answer the following short question (each question carries three marks) 5×3=15

1. Define orthonormal set of functions and show that the functions $1, \cos x, \sin x, \cos 2x, \sin 2x, \cos 3x, \sin 3x, \dots$ are orthogonal on the interval $(-\pi, \pi)$.
2. Show that (i) $J_{-n}(x) = (-1)^n J_n(x)$ if n is positive integer and (ii) $J_n(-x) = (-1)^n J_n(x)$ if n is positive integer or n is negative integer
3. Solve $3 \frac{\partial u}{\partial x} + 2 \frac{\partial u}{\partial y} = 0$. Where $u(x, 0) = 4e^{-x}$.
4. Solve $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} = 0$. Where $u(x, 1) = x^3$.
5. Solve the one-dimensional wave equation.

Section-B

Answer the following short question (each question carries five marks) 3× 5=15

1. Solve the two-dimensional heat equation and also discuss a solution of the wave equation satisfied by a thin membrane bounded by a rectangle in $x = 0, x = a, y = 0, y = b$ and $u = f(x, y)$ at $t = 0$.
2. Solve the two-dimensional wave equation.
3. Solve the Three-dimensional Laplace equation. And also find the potential $\phi(x, y, z)$ in the region $0 \leq x \leq a, 0 \leq y \leq b, 0 \leq z \leq c$, satisfying the conditions