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

SUPPLEMENTARY - 2024

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

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 **25-11-2024** 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 **25-11-2024** at the concerned counter at PGRRCDE, OU on any working day and obtain receipt.

DIRECTOR

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

INTERNAL ASSIGNMENT- 2023 - 2024

Course : B.A. / B.Com. / BBA / BA (Maths & Stats) II year

Paper : General English   Title : General English   Year II year

Section – A

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

1. How does the rumour spread from the photographer's shop?
2. How did the narrator end up withdrawing all his money?
3. Write about communication skills
4. Explain major theme of the poem "Telephone conversation"
5. Discuss the main issue the makes Arnold so melancholic in this 'Dover Beach" poem.

Section – B

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

1. Explain the Adventure of the Blue carbuncle".
2. Describe 'The secret life of walter mitty"

Name of the Faculty : Dr. K. Kiran

Dept. of English

INTERNAL ASSIGNMENT- 2023 - 2024

Course : B.A. / B.Com. / BBA / BA (Maths & Stats) 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. పాలకురికి సోమనాథుడు.

2. బమ్మెర పోతన.

3. గురజాడ అప్పారావు.

4. సుచేలుడు.

5. ఉపమాలంకారం.

Section – B

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

1. ఉషమాంత కన్నప్ప భక్తి తత్వాన్ని వివరించండి?

2. మగ సంసారం నాటకం నాటకాంశాల్లోని తెలుపండి?

Name of the Faculty :

Dept. of Telugu.

Dr. D. Ram Babu.

INTERNAL ASSIGNMENT- 2023 - 2024

Course : B.A. / B.Com. / BBA / BA (Maths & Stats) II year

Paper : _Arabic_   Title : _Second lag (Arabic)_   Year _2023_   II year.

Section – A

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

1   ١) مَتَى تَرْجِعُ مِنَ السُوقِ ؟

2   ٢) مَا اِسْمُ الطَّالِبِ الجَدِيدِ ؟

3   ٣) أَيْنَ تَذْهَبُ أَيَّا كَلِّي ؟

4   ٤) أَيْنَ تَدْرُسُ يَا أُخْتِي ؟

5   ٥) كَمْ طَالِبًا فِي فَصْلِكُمْ ؟

Section – B

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

1 Define the following with Examples "كَانَ وَأَخَوَاتُهَا"

2. Write the Summary "سُورَةٌ مِنَ القُرْآنِ المَجِيدِ"

Name of the Faculty : Dr. Md Sohail Ahmd

Dept. _Arabic_

INTERNAL ASSIGNMENT- 2023 - 2024

Course : B.A. / B.Com. / BBA / BA (Maths & Stats) 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) مثنوی کے اجزاء پر نوٹ لکھئے۔

2

(2) شیخ ابراہیم ذوقؔ کے بارے میں آپ کیا جانتے ہیں؟

3

(3) ''انتخابِ سب رس'' سے کوئی دو (2) اقتباسات کو اپنے الفاظ میں قلم بند کیجئے۔

4

(4) صنفِ رباعی اور اس کی اقسام پر اظہارِ خیال کیجئے۔

5

(5) رپورتاژ کا فنّی جائزہ لیجئے۔

Section – B

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

1

(6) قصیدہ ''درشانِ حمید الدولہ'' کا خلاصہ اپنے الفاظ میں تحریر کیجئے۔

2.

(7) نصیر الدین ہاشمی کے مضمون ''تقدیم اُردو (دکنی) میں نیچرل شاعری'' کا خلاصہ پیش کیجئے۔

Name of the Faculty :

Dr. MOHD MUSHTAQ AHMED

Dept. _____ URDU

INTERNAL ASSIGNMENT- 2023 - 2024

Course : B.A. / B.Com. / BBA / BA (Maths & Stats) II year

Paper : **II**   Title : SANSKRIT Assignment for   Year II YEAR 2023-2024.
Internal Assessment.

Section – A

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

1. प्रतिमानाटकस्य रचयिता कः प्रतिमानाटकस्य तृतीयाङ्कस्य नाम लिखत ।
2. प्रतिमागृहे स्थापितानां प्रतिमानां नामानि लिखत ।
3. शिष्यानुशासनम् इति पाठ्यांशः कस्मात् सङ्गृहीतः ?
4. दकार कथायाः किं शिक्षेत ।
5. अनुवदत – "क्रियासिद्धिः सत्त्वे भवति महतां नोपकरणे" ।

Section – B

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

1. द्वयोः शब्दयोः सर्वाणि विभक्तिरूपाणि लिखत-
   (1). वाच् (2). विद्वस्
2. लक्ष्यलक्षण समन्वितम् "अर्थान्तरन्यास अलङ्कारं" विवृणुत ।

Name of the Faculty : Dr. Jyoti N. Foujdar

Dept. Sanskrit.

INTERNAL ASSIGNMENT- 2023 - 2024

Course : B.A. / B.Com. / BBA / BA (Maths & Stats) II year

Paper : II   Title : Second Language (HINDI)   Year II year

Section – A

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

1 कबीरदास ने निंदा करने वालों को अपने पास क्यों रखने के लिए कहा है ?

2 तुलसीदास ने संत, साधुओं की तुलना आम के वृक्ष से क्यों की है ?

3 सूरदास किसके भक्त थे ? उनकी प्रमुख रचनाओं के नाम लिखिए ।

4 कवि रहीम ने सज्जन लोगों की तुलना चन्दन के वृक्ष के साथ क्यों की है ?

5 कवि बिहारी ने सोने (स्वर्ण) और धतूरे के उदाहरण के द्वारा क्या कहा है ?

Section – B

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

1 आदि काल या वीरगाथा काल की परिस्थितियों का वर्णन कीजिए ।

2. मादा भ्रूण कविता का सारांश लिखिए ।

Name of the Faculty : K. DATTATRAYA

Dept. HINDI

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

INTERNAL ASSIGNMENT- 2023 - 2024

Course : B.A. (Statistics) II year

Paper : II   Title : Statistical Methods and Inference   Year II

Section – A

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

1. Define Mathematical expectation. State and prove additive theorem.

2. Define correlation and regression. State properties of correlation coefficient and regression coefficients.

3. Define Population, sample, parameter, sample.

4. Explain Maximum likelihood Estimation.

5. Explain t-test for single mean and difference of means

Section – B

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

1. Explain Criteria of good estimator with example.

2. State and prove Neyman Pearson Lemma.

Name of the Faculty : M. Anitha

Dept. Statistics

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

INTERNAL ASSIGNMENT QUESTION PAPER - 2023-24

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

Paper : _II_ Subject : _Solid Geometry &_ Year _IInd Year_
Real Analysis

Total Marks: 30

Section – A

UNIT – I : Answer the following short questions (each question carries three marks)   5x3=15

1. Find the angle between 2 planes $2x - y + z = 6$ and $x + my + 2z = 7$

2. Find the equation of the sphere through the four points $(4, -1, 2)$ $(0, -2, 3)$ $(1, -3, -1)$ $(2, 0, 1)$

3. Prove that $\sum_{n=1}^{\infty} \frac{1}{\sqrt{n^2 + 1}}$ is divergent

4. Define chain rule

5. $Lt_{n \to \infty} \frac{\log n}{n^2}$

Section – B

UNIT – II : Answer the following Questions (each question carries Five marks)   3x5=15

1. Find the equation of the cone with vertex $(3, 4, 3)$ and $3x^2 + 2y^2 = 6$, $5 + z = 0$ as base

2. State & prove Bolzano – Weierstrass Theorem

3. Show that the plane $3x + 12y - 6z - 17 = 0$ touches the conicoid $3x^2 - 6y^2 + 6z + 17 = 0$ and find the point of contact.

Name of the Faculty : Dr. K. Ramesh Babu.

Dept. _of Mathematics_

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PROF.G.RAM REDDY CENTRE FOR DISTANCEBEDUCATION

OSMANIA UNIVERSITY HYDERABAD-500 007

INTERNAL ASSIGNMENT 2023-2024

Course: BA (Maths & Stats),

Paper: <u>II</u>   Title: <u>Applied Mathematics</u>   Year: <u>II Year</u>

Section-A

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

1. Define orthonormal set of functions and show that the functions $1,\ cosx, sinx,$ $cos2x,\ sin2x, cos3x,\ sin3x, \cdots$ are orthogonal on the interval $(-\pi, \pi)$.

2. Show that (i) $(2n + 1)xP_n = (n + 1)P_{n+1} + nP_{n-1}$ 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 $x\frac{\partial u}{\partial x} + y\frac{\partial u}{\partial y} = nu$ subject to $u(x, 1) = x^3$.

5. Solve the one-dimensional heat equation.

Section-B

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

1. Solve the two-dimensional Wave equation and also discuss a solution of the wave equation satisfied by a thin membrane bounded by a rectangle in $x = 0, x = a,$ $y = 0,\ y = b$, subject the boundary conditions $u(0, y, t) = 0 = u(a, y, t),$ $u(x, 0, t) = 0 = u(x, a, t)\ u(x, y, 0) = f(x, y)$ and $\frac{\partial u}{\partial t} = g(x, y)$ at $t = 0$.

2. Solve the Three-dimensional Laplace equation. And also find the potential $\emptyset(x, y, z)$ in the region $0 \le x \le a, 0 \le y \le b, 0 \le z \le c$, satisfying the conditions

   (i) $\emptyset = 0$ when in $x = 0, x = a,\quad y = 0,\ y = b$ and $z = 0$.

   (ii) $\emptyset = f(x.y)$ on $z = c$,$0 \le x \le a, 0 \le y \le b$.

3. Solve the three-dimensional heat equation in spherical polar coordinates

Dr. B. Mallesh

9985860201