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

ANNUAL - 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

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.

Candidates are required to submit the Exam fee receipt along with the assignment answers scripts at the concerned counter on or before **20-03-2024** 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 <u>HAND WRITTEN ASSIGNMENTS</u> 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 **20-03-2024** at the concerned counter at PGRRCDE, OU on any working day and obtain receipt.

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INTERNAL ASSIGNMENT- 2023 - 2024

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

Paper: Jeneral Eyhsh Title: Geneeral English Year Il year

Section – A

UNIT-1: Answer the following short questions (each question carries two marks) 5x2=10 1. HOW does the remover Spread from the photographer's shop? 2. How did the noseator End up withdrowing all his money? 3. white 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 Lowbuncle". 2.. Describe The secret libe of Walter Mitty"

Name of the Faculty: Dr. K. Kiron

Dept. DE English

V. C.L. J. RAM REDBY CERTREFOR DISTALSCE EDUCATION OSMANIA UNIVERSITY, HYDERABAD-500 007

ERTERNAL ASSIGNMENT- 2023 - 2024

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

Paper :	Bein	Title :	Bein	Year	249
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UNIT – I : Answer the following short questions (each question carries two marks) 5x2=10

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Section – B

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

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Name of the Faculty :

Dept. of Telugu. Dr. D. Rom Babu,

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INTERNAL ASSIGNMENT- 2023 - 2024

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

U yeen. Year <u>2023</u> Paper: <u>Avabic</u> Title: <u>Second lag</u> (Avabic)



UNIT – I : Answer the following short questions (each question carries two marks) 5x2=10					
1	ا) متى ترج إنى المسوى ؟				
2	ج) ما اسم الطَّالب الجدير ؟				
3					
4	٣) ابن ترزيقت أبا علي ?				
5	٤) آنن اندر کا ازی ؟				
	۵) آم د طالباً جي قصد ؟				
	Section – B $($				

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

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1 Define the following with Examples "Lipiji it" 2. Woite the Summary مُون العرون المحيد

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Name of the Faculty: 12 Md Schart Ahmed Dept. Arabic

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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 _____

Section – A

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

Section – B

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

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2.

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Name of the Faculty :

Dr. MOHD MUSHTAQ AHMED

Dept._____URDU

PROF. G. RAM REDDY CELUEE FOR DESLIPEDE EQUICATION OSMANIA UNIVERSITY, HYDERABAD-590-007



UNIT - 1: Answer the following short questions (each question carries two marks) 5x2=10 1 प्रतिमानार करन रचायता की: प्रतिमानार करन्य तृतीयाइन्टम 2 जाम किरवत । 2 प्रतिमान्स होते पारुपाँशाः करमान किरवत । 3 शिख्यान शासनम् इति पारुपाँशाः करमान सङ्ग्रतीतः । 4 रकार कथायाः कि शिक्षते । 5 अनुवदत - किर्यासदिः सन्व अवति महर्ग नोपकरणे।

Section – B

UNIT - II : Answer the following Questions (each question carries Five marks) 2x5=10 1 द्वारेः शत्वयोः स्वाणि विभाक्ते रुपाणि किरवत'-2. लक्ष्यकक्षण समन्वितम् "अर्थान्तरन्यासाकद्वर्गर् विवृण्ता

Name of the Faculty: D.J. Jyok . N. Fouzdar

Dept. Sanskrat

PROF. G. RAM NEDDY CHIVIEL ON DISTANCE EDUCE OSMANIA UNIVERSITY, HYDERAB. D-500 007

INTERNAL ASSIGNMENT- 2023 - 2024

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

Paper: II Title: <u>Second Language</u>(<u>HINDI</u>) Year II year

Section – A

UNIT-1: Answer the following short questions (each question carries two marks) 5x2=10 1 अत्वीरदास ने लिंदा करने वालों को अपने पास क्यों रखने के लिए कहा है? 2 पुलसीदास ने संत, सायुओं जी तुलना आम के वृक्ष से क्यों भी है? 3 सूरदास विसके अक्त थे ? उनकी प्रमुख रचनाओं के जाम लिखिए ! 4 कवि रहीम ने सज्जन लोगों की तुलना -चन्दन के वृक्ष के साथ क्यों भी है? 5 कवि बिहारी ने सोने (स्वर्ण) और धतुरे के उदाहरण के तरा क्या कहा है?

Section – B

UNIT - Il : Answer the following Questions (each question carries Five marks) 2x5=10 1 आदि काल या वीरगाया काल की परिस्थितियों का वर्णन कीजिए | 2. मादा भूएा 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 : 11	Title: Statistical Methods and	Year <u>1</u>
	Inference.	

Section – A

UNIT-1: 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 (oetbicieucle and regression). State properties of correlation (oetbicieucle and regression) (oetbicieucle).
3. Define Population, sample, parameter, sample.
4. Explain Manimum (ikelihood 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 Peuroson Lemma.

Name of the Faculty: M. Anitha

Dept. Statistics

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INTERNAL ASSIGNMENT QUESTION PAPER - 2023-24

COURSE : B.A.(Maths & Applied Maths) Paper: I Subject: <u>Solid Geometry & Year</u> IInd Year Real Analysis

Total Marks: 30

Section – A

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 2n + 2y 2 = 6, 5+7 = 0 as base 2. State & Prove Bolzomo - weierstrars mearem 3. Show that the plane 3n+12y - 62-17=0 touches the Corricial 3n - 6y + 62 + 17 = 0 Corricial 3n - 6y + 62 + 17 = 0 Corricial 4re point & bontact. Name of the Faculty: and dred the point & bontact. Dept. <u>F</u> A athematic



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INTERNAL ASSIGNMENT 2023-2024

Course: BA (Maths & Stats),

Paper: II

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

Section-A

Answer the following short question (each question carries two marks) $5 \times 3 = 15$

- 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) $3 \times 5=15$

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),

$$u(x, 0, t) = 0 = u(x, a, t) u(x, y, 0) = f(x, y) \text{ and } \frac{\partial u}{\partial t} = g(x, y) \text{ at } t = 0.$$

- 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 998586020)