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

ANNUAL EXAMINATIONS - 2023

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. Each assignment carries **20 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 **28TH February, 2023** 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 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.

<u>**FORMAT**</u>

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 **28th February, 2023** at the concerned counter at PGRRCDE, OU on any working day and obtain receipt.

DIRECTOR

B.A. / B.A. (Maths & Stats) /B.Com. / B.B.A. II YEAR

INTERNAL ASSIGNMENT - ANNUAL 2022 - 2023

Subject : General English

Section – A

UNIT – I : Answer all the questions (each question carries 2 marks)   **5x2=10**

1. What is message of Walter Mitty ?
2. What is the Behaviour of Mohan with Selvi ?
3. Describe Mohan as financial expert.
4. What is Judith's fate at the time of Shakespeare's time.
5. Sketch the Character of Jimmy in After twenty years.

Section – B

UNIT – II : Answer all the questions (each question carries Five marks)   **2x5=10**

1. The relationship between Selvi and Mohan. Elucidate.

2. How did Sherlock Holmes solve the mystery of the Blue Carbuncle ?

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INTERNAL ASSIGNMENT- 2022 - 2023

Course : BA, BA (Maths & Stats), B.Com – II year

Paper : _Telugu_   Title : _S.L. (Telugu)_   Year _2022-2023_
Second year.   II year

Section – A

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

1 పాయబరోశి సోమనాథుని రచనలు.

2 కుమ్మర పోతన.

3 శ్రీకృష్ణ నారాయణరావు.

4 అభివృద్ధి వైప్రత్యాలు.

5 మధుర మైన తెలుగు.

Section – B

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

1 శ్రీకృష్ణుడు కుచేలుకి అనుగ్రహించిన తీరును వివరించండి!

2. మా సంసారం నాటకం నా మనోభిప్రాయక్షి తెలుపండి?

Name of the Faculty : Dr. D. Rambabu.

Dept. of Telugu.

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INTERNAL ASSIGNMENT- 2022 - 2023

Course : BA, BA (Maths & Stats), B.Com – II

Paper : II year HINDI   Title : SL- HINDI   Year II year

Section – A

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

1 कबीर दास ने किसका मुंडन करने के लिए कहा है और क्यों ?

2 तुलसीदास के अनुसार मुखिया कैसा होना चाहिए ?

3 सूरदास किसके भक्त थे ? उनके मुख्य ग्रन्थों के नाम लिखिए |

4 कौए और कोयल के उदाहरण से रहीम क्या कहना चाहते है ?

5 बिहारी ने किसे अधिक नशीला कहा है और क्यों ?

Section – B

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

1 भक्ति कालीन साहित्य की सामान्य प्रवृत्तियाँ (विशेषताएँ) लिखिए |

2 'तोड़ती पत्थर' कविता का सारांश लिखिए |

Name of the Faculty : K. DATTATRAYA

Dept. HINDI

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INTERNAL ASSIGNMENT- 2022 - 2023

Course : BA, BA (Maths & Stats), B.Com — II year

Paper : Sanskrit – II   Title : Assignment   Year 2022-2023

II year

Section – A

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

1 प्रतिमानाटकस्य रचयितुः तृतीय अङ्कस्य नाम च लिखत।

2 प्रतिमागृहे स्थापितानां प्रतिमानां नामानि लिखत।

3 दशउपनिषदः नामानि लिखत।

4 शुकनासः कः। कम् उपादिशत्।

5 अनुवदत – सत्यं वद। धर्मं चर। मातृदेवो भव।
पितृदेवो भव। आचार्यदेवो भव। अतिथिदेवो भव।

Section – B

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

1 क्रियासिद्धिः सत्त्वे भवति महतां नोपकरणे – विवृणुत।

2. अङ्कारौ वर्णयत –(1) अनन्वयः (2) अर्थान्तरन्यासः

Name of the Faculty : Jyoti. N Foujdar

Dept. Sanskrit

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INTERNAL ASSIGNMENT- 2022 - 2023

Course : BA, BA (Maths & Stats), B.Com

Paper : _Arabic_   Title : _____   Year _2022 - II_

Section – A

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

1

2

3

4

5

١) اين تدرس يا أخي ؟

٢) أ شربتم القهوة يا اخوان ؟

٣) أ فهمتم الدرس الجديد يا اسائل ؟

٤) متى خرجتم من الفصل ؟

٥) أكرة القدم لعبتم أم كرة السلة ؟

Section – B

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

1 Explain " حروف الجر " with Examples

2. Write the Summary of " اما بعد الحمد "

Name of the Faculty : Md Sohail Ahmed

Dept. _Arabic_

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INTERNAL ASSIGNMENT- 2022 - 2023

Course : BA, BA (Maths & Stats), B.Com

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   ۔''مثنوی'' یا ''قصیدہ'' کی تعریف کرتے ہوئے اس کے اجزائے ترکیبی تحریر کیجئے۔   1-

2   میر ببر علی انیسؔ کے بارے میں آپ کیا جانتے ہیں؟   2-

3   ''رباعی'' کسے کہتے ہیں اور اس کی مختلف اقسام کونسی ہیں؟   3-

4   ''ناول'' کے معنی و ماخذ کی نشاندہی کیجئے۔   4-

5   ''انشائیہ'' یا ''مضمون'' پر ایک نوٹ لکھئے۔   5-

Section – B

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

1   ملا وجہی کی داستان ''سب رس'' سے منتخب کئے گئے اقتباسات کو اپنے الفاظ میں قلم بند کیجئے۔   1-

2   ''طنز و مزاح'' کی تعریف کرتے ہوئے مرزا فرحت اللہ بیگ کے مضمون ''مردہ بدست زندہ'' کا خلاصہ تحریر کیجئے۔   2-

☆☆☆

Name of the Faculty :

Dr. MOHD MUSHTAQ AHMED

Dept. _____URDU____

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INTERNAL ASSIGNMENT- 2022 - 2023

Course : BA, BA (Maths & Stats), B.Com

Paper : __II__   Title : __Solid Geometry and Real Analysis__   Year __2nd__

Section – A

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

1. Find the eqn. of the plane through the points $(2,2,-1)(3,4,2)(7,0,6)$

2. Find the angle between the plane $2x - y + 2z = 3$, $3x + 6y + 2z = 4$.

3. Find 'k', so that the lines $\frac{x-1}{-3} = \frac{y-2}{2k} = \frac{z-3}{2}$, $\frac{x-1}{3k} = \frac{y-5}{1} = \frac{z-6}{-5}$.

4. Find the centre and radius of the sphere $x^2 + y^2 + z^2 + 2x - 4y - 6z + 5 = 0$.

5. Find the eqn. of the right circular cylinder of radius 2 whose axis is the line $\frac{x-1}{2} = \frac{y-2}{2} = \frac{z-2}{2}$.

Section – B

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

1. Find the eqn. of the plane through the points $(2,2,1)$ and $(9,3,6)$ and perpendicular to the plane $2x + 6y + 6z = 9$.

2. Find the shortest distance between the two lines.
$\frac{x-3}{2} = \frac{y+15}{-7} = \frac{z-9}{5}$;
$\frac{x+1}{2} = \frac{y-1}{1} = \frac{z-9}{-3}$

Name of the Faculty :
Dr. G. Sudhakar Rao.
Dept. __Mathematics__.

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INTERNAL ASSIGNMENT 2022-2023

Course: BA, BA (Maths & Stats), B. Com

Paper: II   Title: Applied Mathematics   Year: II Year

Section-A

Answer the following short question (each question carries two marks)   5×2=10

1. Define orthonormal set of functions and show that the functions $sinx$, $sin2x$, $sin3x$, $\cdots$ are orthogonal on the interval $(0, \pi)$.

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 $\frac{\partial u}{\partial x} = 2\frac{\partial u}{\partial t} + u$ where $u(x, 0) = 6e^{-3x}$.

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 wave equation.

Section-B

Answer the following short question (each question carries two marks)   2× 5=10

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

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

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INTERNAL ASSIGNMENT- 2022 - 2023

Course : BA, BA (Maths & Stats), B.Com

Paper : II   Title : Statistical Methods and Year II
Inference

Section – A

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

1. State and prove addition theorem of mathematical expectation.

2. Explain fitting of straight line.

3. Define F distribution, state its properties.

4. State Neyman Factorization theorem.

5. Explain lines of regression and Define regression coefficients.

Section – B

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

1. Define correlation coefficient, state and prove its properties.

2. Explain criteria of a good estimator with example.

Name of the Faculty : M. Anitha

Dept. Statistics