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

ANNUAL EXAMINATION APRIL / MAY - 2022

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. The marks awarded to you will be forwarded to the Controller of Examinations, OU for inclusion in the University Examinations marks. If you fail to submit Internal Assignments before the stipulated date, the internal marks will not be added to University examination marks under any circumstances. The assignments will not be accepted after the stipulated date. **The assignments have to be submitted by the candidates in the same academic year when they pay the examination fee for exams in first instance only.**

Note : Assignment marks for Mathematics Paper II (30 marks) & Applied Mathematics Paper II (30 marks). Statistical Methods & Inference Paper II (20 marks).

are required to submit the Exam fee receipt along with the assignment answers scripts at the concerned counter on or before **15-02-2022.** and obtain proper submission receipt.

ASSIGNMENT WITHOUT FEE WILL NOT BE ACCEPTED

Assignments on Printed / Photocopy / Typed papers 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 including Sunday 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 **15-02-2022.** at the concerned counter at PGRRCDE, OU on any working day and obtain receipt.

DIRECTOR

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

ANNUAL EXAMINATIONS APRIL / MAY - 2022

INTERNAL ASSIGNMENT

Sub: General English

Section – A

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

1. Why does Shaw think we should not try to speak foreign languages too well ?
2. What do people imagine about Seth Govind Ram ?
3. Describe the Speaker's Experience of home coming.
4. Why does an encaged bird wish to sing ?
5. Why does the speaker ask the landlady to see his palm and sole ?

Section – B

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

1. Describe Verbal and Non – Verbal Communications.
2. Do's and don'ts of interview skills.

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OSMANIA UNIVERSITY, HYDERABAD–500 007

INTERNAL ASSIGNMENT QUESTION PAPER- 2021 - 2022

COURSE : ~~B.A.~~ U.G. II nd year

Paper : తెలుగు   Subject : తెలుగు.

Total Marks: 20

Section – A

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

1 "బమ్మెర పోతన."

2 "కాళోజి నారాయణరావు".

3 వ్యక్తిత్వ వికాసం.

4 మధురమైన తెలుగు.

5 " ఏమి తపంబు సేసె నొకొ యా ధరణి దివిజోత్తమండు తొల్
   ఉత్పలమాల → ఛందస్సు.

Section – B

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

1 "ఊడుముంక కన్నప్ప" కథను వివరించండి?

2. "హరిజన శతకం" ద్వారా కవి ఏమి చెప్పదలంచాడు!

Name of the Faculty :
(Dr. D. Ram Baby)

Dept. ~~of~~ Telugu.

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INTERNAL ASSIGNMENT QUESTION PAPER- 2021 - 2022

COURSE : B.A. II yr·

Paper : II   Subject : HINDI (SL)

Total Marks: 20

Section – A

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

1 कवि रहीम ने तलवार और सुई के उदाहरण के द्वारा क्या समझाया है ?

2 कबीरदास के अनुसार निन्दा करने वाले लोग क्यों अच्छे हैं ?

3 तुलसीदास के अनुसार दूसरों का स्वभाव कैसा होना चाहिए और क्यों ?

4 कबीरदास के अनुसार गुरु का स्वभाव कैसा होना चाहिए ?

5 हिन्दी साहित्य के इतिहास को आचार्य रामचन्द्र शुक्ल ने कितने कालों में बाँटा है ? उनके नाम लिखिए।

Section – B

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

1 मातृभूमि का हमारे जीवन में क्या महत्त्व है ?

2. आदि काल या वीरगाथा काल की मुख्य विशेषताएँ (प्रवृत्तियाँ) लिखिए।

Name of the Faculty : K.DATTATRAYA

Dept. HINDI

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

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INTERNAL ASSIGNMENT QUESTION PAPER- 2021 - 2022

COURSE : B.A., B.B.A, B.Com. –II year

Paper : 11   Subject : Sanskrit

Total Marks: 20

Section – A

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

1. प्रतिमा नाटकस्य रचयिता कः । प्रतिमानां नाम लिखत ।

2. शुकनासोपदेशः कस्मात् गृहीतः । शुकनासः कमुपदिशति ।

3. भोजप्रबन्धः केन विरचितम् । क्रियासिद्धिः सत्त्वे भवति महतां नोपकरणे-वर्णिता -वर्णयत ।

4. देकारकथा कस्मात् गृहीता । दद द-विवृणुत ।

5. अनुवदत - सत्यं वद । धर्मं चर । मातृ देवो भव । पितृ देवो भव । आचार्य देवो भव । अतिथि देवो भव ।

Section – B

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

1. लक्ष्यलक्षणसमन्वितम् अनन्वयालङ्कारं वर्णयत ।

2. भगवत् शब्दस्य सर्वाणि विभक्ति रूपाणि लिखत ।

Name of the Faculty : Jyoti. N. Fouzdar

Dept. Sanskrit-Paper-II

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INTERNAL ASSIGNMENT QUESTION PAPER- 2021 - 2022

COURSE : B.A. _II year_

Paper :_____   Subject : _Arabic_

Total Marks: 20

Section – A

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

1   كم اخالك ياهاشم ؟   (٢) كـ ـ ـ ـ و مطلكم ؟

2   (٣) اين البوك يا ابراهيم ؟   (٤) أصيـ ـ اللـ ـ ي طالي ؟

3

4   (٥) أحفظـ ـ سورة الفجر با ـ ر ـ تم

5

Section – B

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

1 Write the Summary "Compilation of the Qusan"

2. Define the following with Examples "الحروف الجارة" and "حروف مشبهة فعل"

Name of the Faculty : Md Sohail Ahmed

Dept. 12 - 12 - 2021

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

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INTERNAL ASSIGNMENT QUESTION PAPER- 2021 - 2022

COURSE : B.A. _____

Paper : __II (URDU)__   Subject : MUTALA-E-ADAB PART - II

Total Marks: 20

Section – A

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

1

2

3

4

5

(1)   مثنوی ''امن نامہ'' کے مرکزی خیال کو اُجاگر کیجئے۔

(2)   میر ببر علی انیس کی مرثیہ نگاری پر نوٹ لکھئے۔

(3)   مولانا ابوالکلام آزاد کی انشائیہ نگاری کا جائزہ لیجئے۔

(4)   ''مکتوبات صفیہ'' پر اظہار خیال کیجئے۔

(5)   ناول کی تعریف کرتے ہوئے اس کے اجزائے ترکیبی و فنی خصوصیات تحریر کیجئے۔

Section – B

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

(6)   ''رباعی'' کسے کہتے ہیں؟ اس کی مختلف اقسام کا ذکر کرتے ہوئے شاملِ نصاب رباعی گو شعراء کا تعارف پیش کیجئے۔

(7)   ''طنز و مزاح'' کے بارے میں اپنی معلومات بہم پہنچاتے ہوئے طنز و ظرافت کے مختلف انداز کا جائزہ لیجئے۔

Name of the Faculty :
Dr. MOHD MUSHTAQ AHMED

Dept. _____   URDU

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INTERNAL ASSIGNMENT QUESTION PAPER - 2021 - 2022

COURSE : B.A. (Maths & Stats) Maths IIur

Paper : II   Subject : Mathematics.

Total Marks: 30

Section – A

UNIT – I : Answer the following short questions (each question carries two marks)   5×3=15

1 Define plane. Find the angle between the planes.
$2x - y + z = 0$, $x + y + 2z = 7$

2 Define sphere. Find the centre and radius of the sphere
$x^2 + y^2 + z^2 - 6x + 2y - 4z - 16 = 0$

3 Show that general eqn of the cone of the second degree which passes through the coordinate axis is $fyz + gzx + hxy = 0$

4 State P. Series test.

5 Define Riemann Integral.

Section – B

UNIT – II : Answer the following Questions (each question carries Five marks)   TOTAL (15m)

1 Show that the eqn. of the plane through the points – 7M
$(2,2,-1)$ $(3,4,2)$, $(7,0,6)$ is $5x + 2y - 3z - 17 = 0$

2. Find the S.D between the lines. – 8 M

$$\frac{x-3}{3} = \frac{y-8}{-1} = \frac{z-3}{1}, \quad \frac{x+3}{-3} = \frac{y+7}{2} = \frac{z-6}{4}$$

Name of the Faculty : Dr. G. Sudhakar Rao

Dept. Mathematics.

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INTERNAL ASSIGNMENT QUESTION PAPER - 2021 - 2022

COURSE : B.A. (Maths & Stats) II Year B.A Applied Mathematics

Paper : II _____ Subject : Applied Mathematics

Total Marks: 30

Section – A

5×3 = 15

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

1. Define orthogonal set of functions and show that the functions Sina, Sin2a, Sin3a, ... are orthogonal on $(0, \pi)$

2. Using the method of separation of variable

3. Solve $3\frac{\partial u}{\partial x} + 2\frac{\partial u}{\partial y} = 0$, $u(x,0) = 4e^{-x}$

#3. Solve $\frac{\partial u}{\partial t} = c^2 \frac{\partial^2 u}{\partial x^2}$ by method of separation of variables.

5. 4. Solve $\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} = c^2 \frac{\partial u}{\partial t}$ by method of separation of variables.

5. Solve $\frac{\partial^2 u}{\partial x^2} + \frac{\partial^2 u}{\partial y^2} + \frac{\partial^2 u}{\partial z^2} = 0$ by method of separation of variables.

Section – B

UNIT – II : Answer the following Questions (each question carries Five marks)

1. A tightly stretched string with fixed end points $x=0, x=1$ 7M in shaped defined by $y = \lambda x (1-x)$ where λ is a constant, released from this position of rest find $y(x,t)$ 8M

Name of the Faculty : B. Mallesh

Dept.of Mathematics.

2. A rod of length 'l' has its ends A and B kept at 0°c and 100°c respectively until steady state conditions prevail. If the temperature at B is reduced suddenly to 0°c and kept so while that of 'A' is maintained. Find the temperature $u(x,t)$ at a distance x from A at a time t.

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INTERNAL ASSIGNMENT QUESTION PAPER - 2021 - 2022

COURSE : B.A. (Maths & Stats) – II Year.

Paper : II   Subject : Statistical Methods & Inference.

Total Marks: 20

Section – A

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

1. Write any two properties of Regression coefficients.

2. Prove the addition theorem of expectation.

3. Define Type-I and Type-II error with example.

4. Explain Sign Test for paired sample data.

5. Define (i) MP-Test (ii) UMP Test.

Section – B

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

1. State and prove Neyman-Person Lemma. (NP lemma)

2. In random sampling from normal population $N(\mu, \sigma^2)$. find the Maximum likelihood estimators for.

(i) μ when σ^2 is known

(ii) σ^2 when μ is known.

(iii) the simultaneous estimation of μ and σ^2

Name of the Faculty : Cisap
07/01/2022

Dept. of Statistics.