INTERNAL ASSIGNMENT QUESTIONS P.G. Diploma in Mathematics ANNUAL EXAMINATIONS (2015-2016)



PROF. G. RAM REDDY CENTRE FOR DISTANCE EDUCATION

(RECOGNISED BY THE DISTANCE EDUCATION BUREAU, UGC, NEW DELHI)

OSMANIA UNIVERSITY

(A University with Potential for Excellence and Re-Accredited by NAAC with "A" Grade)

DIRECTOR Prof. H.VENKATESHWARLU Hyderabad – 7, Telangana State

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

Dear Students,

Every student of P.G.Diploma in Mathematics has to write and submit **Assignment** for each paper compulsorily. Each assignment carries **20 marks**. The marks awarded to you will be forwarded to the Controller of Examination, OU for inclusion in the University Examination 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 assignment marks will not be accepted after the stipulated date,

You are required to **pay Rs.300/- fee** towards Internal Assignment marks through DD (in favour of Director, PGRRCDE, OU) and submit the same along with assignment at the concerned counter **on or before** <u>20-07-2016</u> and obtain proper submission receipt.

ASSIGNMENT WITHOUT THE DD WILL NOT BE ACCEPTED

Assignments on Printed / Photocopy / Typed papers 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:

- 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.
- 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.

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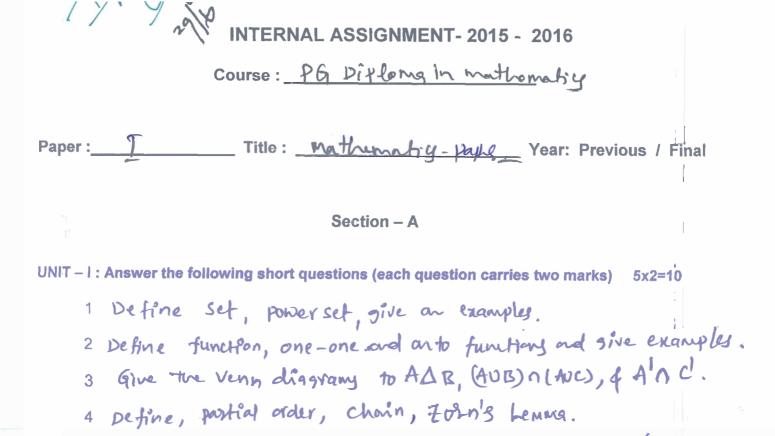
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FORMAT

- 1. NAME OF THE STUDENT
- 2. ENROLLMENT NUMBER
- 3. P.G.Diploma in Mathematics
- 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 assignment number wise.
- 8. Submit the assignments on or before **20-07-2016** at the concerned counter at PGRRCDE, OU on any working day and obtain receipt.

Prof.H.VENKATESHWARLU DIRECTOR

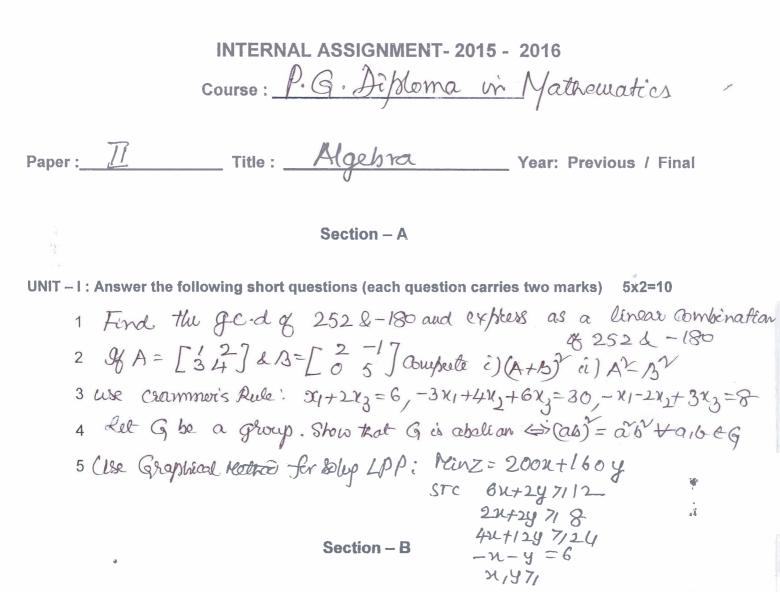


5 Give examples of sets such that AX(BX() + (AXB) X (.

Section – B

UNIT-II: Answer the following Questions (each question carries Five marks) 2x5=10 1. The intersection of two equivalence relations on A is an equiva-Lunce relation on A. 2. int f: A-JB and CCA, DCA then

(i) f(CUD) = f(C) U f(D) and (ii) f(CUD) = nf(D) Name of the Faculty: RAMALS NGALAH-K Dept. ULE, OV, Pept-mathematical



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

1. Stand state and prove Lagrange's Theorem for gamps. 2. Determine the eigen values and eigen voctors of $\begin{bmatrix} -6 & -6 & 2 \\ -6 & 7 & -4 \\ -2 & -4 & 3 \end{bmatrix}$

Name of the Faculty: De S. S. Suyau Dept. & Mattrematics OUCW, Kothi, Hyderalad -95 Coll: 9441200223

INTERNAL ASSIGNMENT- 2015 - 2016

course: P.G. Diploma in Mathematics

II Title: CalCulys KDifferental, Year: Previous / Final Paper :

Section – A

UNIT-1: Answer the following short questions (each question carries two marks) 5x2=101 State and prove Bolzano-Weierstrass Theorem. 2 T-Verify Lagranges theorem for $f(\pi) = \frac{4\pi^2 + m\pi + m}{3} \text{ Test The convergence of the series } \frac{2\pi + 3}{5\pi^3 + 2}$ 4 Solve: $(p^4 + 6p^2 + q)y = 0$ 5 Solve: $p(1+q^2) = 0$

Section – B

UNIT -- II : Answer the following Questions (eact question carries Five marks) 2x5=102. Solver i) (D4+2D71) y=7 GSZ. (ii) cash dy + y=tanx Name of the Faculty : V. Verukateshing Dept. Of mathematics UCS, Saifabard O.U. Hyd-of.

INTERNAL ASSIGNMENT- 2015 - 2016

Course: P.G. Diploma in Mathemalice

Рар	er :_	TV Title : Statistics Year: Previous / Final
		Section – A
UNIT	1	: Answer the following short questions (each question carries two marks) 5x2=10 gb A and B are independent \overline{A} and \overline{B} are also independent. State and PR one Tchebycheps inequality.
		State The Properties of Moment Generaling Function. Derive the Mean and Variance for exponential distribution Establish The relationship between central and non-central Moments.

Section – B

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

- 1. Define Normal Distribution and State its characteristics. Also definites characteristic function. 2-22 plain passons control charts used for variables (2, 13) or) Indetect
- 2. Explain control chart for mean and Range charts indetail with a suitable examply

Name of the Faculty: Dr. N. ch. Bhalea chal

Dept. of Statistics, UCS, O.U., Hyderbad-