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Total No. of Pages : 03

Total No. of Questions : 09

B.Tech. (CSE/ME/ECE/CE/IT/EE/EEE) (Sem.-1)

ENGINEERING MATHEMATICS-I

Subject Code : BTAM-101

M.Code : 54091

Date of Examination : 08-12-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION - B & C. have FOUR questions each.
3. Attempt any FIVE questions from SECTION B & C carrying EIGHT marks each.
4. Select atleast TWO questions from SECTION - B & C.

SECTION-A

1. Solve the following:

a) Find the curvature of the curve $r = a \sin \theta + b \cos \theta$ at any θ .

b) Find the total length of the curve $r = a \sin^3 (\theta/3)$.

c) If $u(x, y) = \cos^{-1} \left(\frac{x+y}{\sqrt{x} + \sqrt{y}} \right)$, $0 < x, y < 1$, then prove that $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} = -\frac{1}{2} \cot u$.

d) Find the relative maximum and minimum values of the function

$$f(x, y) = xy + (9/x) + (3/y).$$

e) If $z = f(ax - by)$, then show that $b \frac{\partial z}{\partial x} - a \frac{\partial z}{\partial y} = 0$.

f) Evaluate $\iint_R e^{x^2} dx dy$, where the region R is given by $R : 2y \leq x \leq 2$ and $0 \leq y \leq 1$.

g) Prove that $\nabla r^n = nr^{n-2} \vec{r}$, where $\vec{r} = x\vec{i} + y\vec{j} + z\vec{k}$.

Diploma Final Sem Paper

Arihant Experts



Diploma Final Sem Paper:

Bank PO Solved Papers Reasoning 2020 Arihant Experts, 2020-02-14 IBPS is one of the major bodies of Banking Sector which is responsible for its fair and transparent selection of candidates into its participating banks through multiple online based tests It has recently released its employment notification for the post of Probationary Officers PO and Management Trainees MT which will occur in three stages Prelims and Mains followed by a Common Interview The current edition of 20 Years 2009 2000 Chapterwise Solved Papers Bank PO Reasoning has been carefully revised for the candidates who are preparing for the banking exams like IBPS PO SBI PO Nationalised Bank PO and more This practice book provides the ample amount of solved papers arranged in 20 Chapters with more than 5000 Objective questions for the conceptual clarity Each chapter is incorporated with highly useful study material and gives detailed explanations of all questions It also include Practice Sets and 3 Solved Papers that helps to solidify the practice and track level progress and help them to know the stringer and weaker areas of the aspirants Bringing complete study resources for various Bank PO exams at one place for the convenience of aspirants this book is also useful for RBI Grade I RRB Scale I Insurance Sector and other exams

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IGNOU MCA Second Semester Previous Years Unsolved Papers Manish Soni, 2024-11-13 It is with great pleasure that we present IGNOU MCA Second Semester Previous Years Unsolved Papers a comprehensive collection of previous years question papers meticulously curated to support students pursuing a Master of Computer Applications MCA degree from the Indira Gandhi National Open University IGNOU This book is designed to serve as a valuable resource for students preparing for their MCA exams helping them not only to understand the examination pattern but also to enhance their problem solving skills and self assessment abilities The IGNOU MCA program is one of the most reputed distance learning programs in India and it requires students to possess both theoretical knowledge and practical skills across various subjects related to computer science software development and application management Given the vastness of the syllabus and the technical rigor of the program students often seek additional support material to solidify their understanding of key concepts and prepare effectively for the exams This book is intended to fill that gap by providing a comprehensive set of unsolved question papers from previous years In today s competitive academic environment exam preparation is no longer just about understanding the concepts it s about mastering the examination pattern practicing time management and gaining the confidence to face complex questions with ease One of the best ways to achieve this is by going through previous years question papers This book includes question papers from various subjects covered in the MCA curriculum including programming languages algorithms database management systems software engineering data

structures computer networks and more By working through these unsolved papers students can Understand the Examination Pattern IGNOU s question papers have a specific structure with questions ranging from multiple choice to short answer and long essay type questions By familiarizing themselves with the pattern students can plan their time effectively during the exam Identify Important Topics Previous question papers are an excellent indicator of frequently asked topics By solving these papers students can focus on key areas that have a higher probability of appearing in the exams Enhance Problem Solving Skills The unsolved papers encourage students to think critically and apply their theoretical knowledge to practical problems This process of self discovery helps in strengthening core concepts and improving analytical skills Practice Time Management One of the biggest challenges in any exam is managing time effectively By solving previous years papers under timed conditions students can practice completing the papers within the given time frame helping them avoid last minute rushes during the actual exams Self Evaluate After attempting the unsolved papers students can cross check their answers with textbooks or online resources This process of self evaluation is invaluable in identifying areas of weakness and focusing on them before the exams

The Paper Industry ,1926 **Sessional Papers** Great Britain. Parliament. House of Commons,1902 *Parliamentary Papers* Great Britain. Parliament. House of Commons,1902 **Parliamentary Papers** Queensland. Parliament. Legislative Assembly,1992 **Translanguaging in Higher Education** Catherine M. Mazak, Kevin S. Carroll, 2016-12-09 This book examines translanguaging in higher education and provides clear examples of what translanguaging looks like in practice in particular contexts around the world While higher education has historically been seen as a monolingual space the case studies from the international contexts included in this collection show us that institutions of higher education are often translingual spaces that reflect the multilingual environments in which they exist Chapters demonstrate how the use of translanguaging practices within the context of global higher education where English plays an increasingly important role allows students and professors to build on their linguistic repertoires to more efficiently and effectively learn content The documentation of such practices within the context of higher education will further legitimize translanguaging practices and may lead to their increased use not only in higher education but also in both primary and secondary schools

SSC Chapterwise Solved Papers English Language 2020 Arihant Experts, 2020-02-24 SSC CGL CHSL Stenographer Multitasking CPO are the popular exams in the country for which numerous students apply every year When it comes to the preparation of the SSC exams one needs to have focused mindset requires conceptual clarity and immense practice in order to reserve the good rankings During the preparation one should include an ample amount of solved papers which is necessary to understand the pattern and trends of questions The revised edition of 20 years Chapterwise Solved Papers SSC English Language is the perfect practice tool for the above mentioned exams As the name suggests this book has been carefully revised to provide the ample amount of last 20 years solved papers 2019 2000 arranged in 12 Chapters with more than 5000 Objective Questions for the conceptual clarity It also includes 5 Practice Sets

Solved Papers from 2015 to 2019 of various SSC exams for the self evaluation which help to know the stronger and the weaker areas of the aspirants With the highly useful study material in each chapter and also providing the detailed explanations for all questions in a simplest language it is a one stop solution for scoring highest marks in English Section of SSC Exams

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