



Printed Pages : 4

MCA – 124

(Following Paper ID and Roll No. to be filled in your Answer Book)

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MCA

(SEM. II) EXAMINATION, 2006-07
COMBINATORICS & GRAPH THEORY

Time : 3 Hours]

[Total Marks : 100

Note : Attempt all the questions.

1. Answer any **four** parts of the following:- **5×4=20**

- (a) Determine the number of positive integers n where: $1 < n \leq 100$ and n is not divisible by 2, 3, or 5?
- (b) Find the sequence corresponding to the generating function $f(x) = (1 + x)^{-n}$, where n is positive integer.
- (c) Solve the recurrence relation $a_n - 4a_{n-1} + 4a_{n-2} = (n+1)2^n$.
- (d) Show that no simple graph can have the degrees of all its vertices distinct.
- (e) Define Eulerian and Hamilton graph. Draw a graph with six vertices which is
 - (i) Hamiltonian and non-eulerian
 - (ii) Eulerian and non-hamiltonian
- (f) Discuss the traveling salesman problem.

Uptu 1 Semester Question Papers

A S Vasudeva



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Engineering Mathematics I: For Uptu Ram Babu, 2010-09 **Entrepreneurship Development (For UPTU, Sem.VII)** Richa Sharma, Sapna Mathur & Nitin Tripathy, This book is meant for BTech 7th semester course of all branches of Engineering of the Uttar Pradesh Technical University UPTU The book is of immense value for budding engineers to make them better managers and successful entrepreneurs The book has been specifically written for those students who need a broad introduction to the whole field of enterprise such as those who have chosen entrepreneurship as an elective paper for a Bachelor s or a Master s degree **KEY FEATURES** Questions and Examples Wherever pertinent chapters have Questions Numerical Problems and Business Examples Additional Illustrative Material Relevant illustrations have been used as accompaniment to the text Real life Examples These have been used in boxes to explain concepts further **Engineering Mathematics II: For UPTU** , Engineering Mathematics Iii: For Uptu Ram Babu, 2010-09 Electrical Machines and Control (For UPTU, Lucknow) Navani J.P. & Sapra Sonal, Single Phase Transformer Three Phase Transformer And Autotransfer Dc Motor Three Phase Induction Motor And Servomotor Alternator Synchronous Motor Introduction To Control System Signals And Transfer Function Modeling Of Mechanical System Time Response Analysis Stability Polar Plot Frequency Response Analysis Root Locus Techniques Process Control University Question Papers Electrical Engineering (For 1st Year of UPTU & UTU) Navani J.P. & Sapra Sonal, Basic Of Concepts D C Circuit Analysis Network Theorem A C Fundamentals Analysis Of Single Phase A C Circuit Three Phase A C Circuit Measuring Instruments Introduction To Power System Magnetic Circuits Single Phase Transformer D C Machines Induction Motors Three Phase Synchronous Machines Papers Index **Botany For B.Sc. Students Semester V: Paper 1 | Plant Physiology, Metabolism & Biochemistry | Experiments in Physiology, Biochemistry & Molecular Biology - NEP 2020 UP** B P Pandey, This textbook has been designed to meet the needs of B Sc Fifth Semester students of Botany as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020 It comprehensively covers Paper 1 namely Plant Physiology Metabolism Biochemistry The theory part of this book aptly discusses the role of physiological and metabolic processes for plant growth and development and explains the symptoms of mineral deficiency in crops and their management Relevant experiments corresponding to the theoretical topics and examples have been presented systematically to help students achieve sound conceptual understanding and learn experimental procedures

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Sharma,2010-10 Manufacturing Processes is meant for the students of B Tech in all branches of engineering namely Mechanical Electronics Computer Information Technology Electrical and Civil This book aims to fullfil specific need Effective from 2008 09 sessions **Introduction to Engineering Mathematics Vol-III (GBTU)** H K Dass, This book is primarily written according to the latest syllabus July 2013 of Mahamaya Technical University Noida for the third semester students of B E B Tech B Arch The textbook is for the Group B ME AE MT TT TE TC FT CE CH etc Branches of B Tech III Semester The Solved Question Paper of Dec 2012 is included in the body of the text *Engineering Physics: Vol. 1 , Introduction to Engineering Physics For U.P.* A S Vasudeva,2006 Unit 1 Relativity And InterferenceTheory Of RelativityInterference Unit 2 Diffraction And PolarizationDiffractionPolarizationUnit 3 Fields And ElectrostaticsScalar And Vector FieldsElectric Fields And Gauss S LawMaxwell S Equations Unit 4 Magnetic Properties Of Materials And X RaysMagnetic Properties Of MaterialsX Rays And Compton Effect Unit 5 Quantum Theory And LasersMatter Waves And Uncertainty PrincipleQuantum TheoryLasersModel Test Papers **ENGINEERING PHYSICS** KIRAN RAO, 1 WAVE MECHANICS 2 X RAY DIFFRACTION 3 DIELECTRICS 4 ELECTROMAGNETICS 5 SUPER CONDUCTIVITY QUESTION ANSWERS **HUMAN RESOURCE MANAGEMENT** Vikrant Verma ,Nivedita Singh,2025-05-27 MBA SECOND SEMESTER According to the New Syllabus of Dr A P J Abdul Kalam Technical University Lucknow *Electrical Instrumentation and Process Control (For UPTU, Lucknow)* Navani J.P. & Sapra Sonal,2015 This book is written in a simple and easy to understand language to explain the fundamental concepts of the subject The book presents the subject of EIPC in a comprehensive manner to the students at undergraduate level This book not only covers the entire scope of the subject but also explains the philosophy of the subject This makes the understanding of the subject more clear and interesting The book will be very useful not only to the students but also to the faculty members **Network Analysis and Synthesis** Mohammed Arshad,2006-06 *Engineering Physics Theory And Experiments : (As Per The New Syllabus, B. Tech. I Year Of U.P. Technical University)* Srivastava,2009 Introduction to Engineering Mathematics - Volume III [APJAKTU] HK Dass et. al, Introduction to Engineering Mathematics Volume III is written for the B E B Tech B Arch students of third fourth semester of Dr A P J Abdul Kalam Technical University AKTU in according to the new syllabus The book is divided into twenty five chapters covering all the important topics of the subject It contains fairly a large number of solved examples from question papers of examinations recently held by different universities and engineering colleges so that the students may not find any difficulty while answering these problems in their final examination

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