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 Euterian 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

Vikrant Verma ,Nivedita Singh

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Sharma,Savita 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   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   **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** 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   **Engineering Physics Theory And Experiments : (As Per The New Syllabus, B. Tech. I Year Of U.P. Technical University)** Srivastava,2009   Network Analysis and Synthesis Mohammed Arshad,2006-06   **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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