



Seat No.	
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S.Y. B.Sc. (Semester – II) Examination, 2013
MATHEMATICS (Paper – II (B))
MT – 222 : Discrete Mathematics (2008 Pattern) (511B2)

Time : 2 Hours

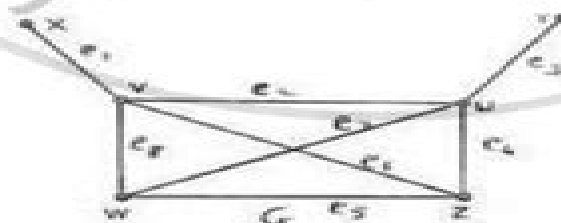
Max. Marks : 40

- N.B. :** 1) *All questions are compulsory.*
 2) *Figures to the right indicate full marks.*
 3) *Use of non-programmable scientific calculator is allowed.*

1. Answer any five of the following :

10

- Prove that for integer $n \geq 3$, $n^2 \geq 2n + 1$.
- Find the number of permutations that can be formed from all the letters of each word : "BENZEME".
- List all self-complementary graphs on 4 vertices.
- Consider the recurrence relation $a_n = a_{n-1} + 3a_{n-4}$. Is it a linear recurrence relation ? If yes, then what is its order ?
- Give an example of a graph which is Hamiltonian but not Eulerian.
- How many different five card hands with 2 red and 3 black cards can be obtained from a deck of 52 cards ?
- Draw the graph after the fusion of u and v given below.



2. Answer any two of the following :

10

- Prove that $n^4 - 4n^2$ is divisible by 3, for all $n \geq 2$.
- Prove that the maximum number of edges in a simple graph with n vertices and k components is $\frac{(n-k)(n-k+1)}{2}$.

Question Paper Discrete Mathematics Semester

Brian Hopkins



Question Paper Discrete Mathematics Semester:

IGNOU MCA Fourth Semester Previous Years Unsolved Papers Manish Soni, 2024-11-13 It is with great pleasure that we present IGNOU MCA Previous Years Unsolved Papers Part 4 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

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