



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

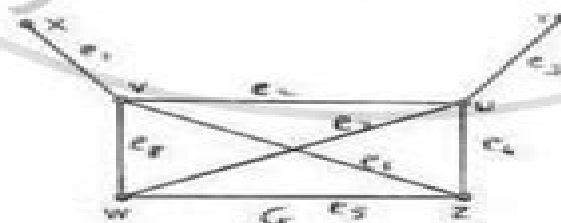
Max. Marks : 40

- 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 $\frac{(n-k)(n-k+1)}{2}$.

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Sebastian Brünink



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Table of Contents Question Paper Discrete Mathematics Semester

1. Understanding the eBook Question Paper Discrete Mathematics Semester
 - The Rise of Digital Reading Question Paper Discrete Mathematics Semester
 - Advantages of eBooks Over Traditional Books
2. Identifying Question Paper Discrete Mathematics Semester
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Question Paper Discrete Mathematics Semester
 - User-Friendly Interface
4. Exploring eBook Recommendations from Question Paper Discrete Mathematics Semester
 - Personalized Recommendations

- Question Paper Discrete Mathematics Semester User Reviews and Ratings
- Question Paper Discrete Mathematics Semester and Bestseller Lists
- 5. Accessing Question Paper Discrete Mathematics Semester Free and Paid eBooks
 - Question Paper Discrete Mathematics Semester Public Domain eBooks
 - Question Paper Discrete Mathematics Semester eBook Subscription Services
 - Question Paper Discrete Mathematics Semester Budget-Friendly Options
- 6. Navigating Question Paper Discrete Mathematics Semester eBook Formats
 - ePub, PDF, MOBI, and More
 - Question Paper Discrete Mathematics Semester Compatibility with Devices
 - Question Paper Discrete Mathematics Semester Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Question Paper Discrete Mathematics Semester
 - Highlighting and Note-Taking Question Paper Discrete Mathematics Semester
 - Interactive Elements Question Paper Discrete Mathematics Semester
- 8. Staying Engaged with Question Paper Discrete Mathematics Semester
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Question Paper Discrete Mathematics Semester
- 9. Balancing eBooks and Physical Books Question Paper Discrete Mathematics Semester
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Question Paper Discrete Mathematics Semester
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Question Paper Discrete Mathematics Semester
 - Setting Reading Goals Question Paper Discrete Mathematics Semester
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Question Paper Discrete Mathematics Semester
 - Fact-Checking eBook Content of Question Paper Discrete Mathematics Semester

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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