

## Model Question Paper-II with effect from 2022 (CBCS Scheme)

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### Second Semester B.E Degree Examination

**Mathematics-II for ELECTRICAL & ELECTRONICS ENGINEERING Stream-BMATE201**

TIME: 03 Hours

Max. Marks: 100

- Note:
1. Answer any **FIVE** full questions, choosing at least **ONE** question from each **module**.
  2. VTU Formula Hand Book is permitted.
  3. M: Marks, L: Bloom's level, C: Course outcomes.

| Module -1 |   |                                                                                                                                                                                                             |  | M | L  | C   |
|-----------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---|----|-----|
| Q.01      | a | Find the angle between the surfaces $xy^2z = 3x + z^2$ and $3x^2 - y^2 + 2z = 1$ at the point $(1, -2, 1)$                                                                                                  |  | 7 | L3 | CO1 |
|           | b | Find $\text{div } \vec{F}$ and $\text{curl } \vec{F}$ at $(1,2,3)$ , if $\vec{F} = 3x^2\hat{i} + 5xy^2\hat{j} + 5xyz^3\hat{k}$                                                                              |  | 7 | L2 | CO1 |
|           | c | Show that $\vec{A} = (y^2 - z^2 + 3yz - 2x)\hat{i} + (3xz + 2xy)\hat{j} + (3xy - 2xz + 2z)\hat{k}$ is both solenoidal and irrotational                                                                      |  | 6 | L2 | CO1 |
| OR        |   |                                                                                                                                                                                                             |  |   |    |     |
| Q.02      | a | Find the work done in moving a particle in the force field $\vec{F} = 3x^2\hat{i} + (2xz - y)\hat{j} + z\hat{k}$ along the straight line from $(0,0,0)$ to $(2,1,3)$                                        |  | 7 | L2 | CO1 |
|           | b | Using Green's theorem evaluate $\oint (xy + y^2)dx + x^2dy$ over the region bounded by the curves $y = x$ and $y = x^2$                                                                                     |  | 7 | L3 | CO1 |
|           | c | Using modern mathematical tools, write the code to find the gradient of $\phi = x^2y + 2xz - 4$                                                                                                             |  | 6 | L3 | CO5 |
| Module-2  |   |                                                                                                                                                                                                             |  |   |    |     |
| Q. 03     | a | Define a subspace. Show that the intersection of two subspaces of a vector space $V$ is also a subspace of $V$ .                                                                                            |  | 7 | L2 | CO2 |
|           | b | Define a basis for a vector space. Determine whether or not the vectors: $(1, 1, 2)$ , $(1, 2, 5)$ , $(5, 3, 4)$ form a basis of $R^3$ .                                                                    |  | 7 | L2 | CO2 |
|           | c | Prove that $T: R^3 \rightarrow R^3$ be defined by $T(a, b, c) = (3a, a - b, 2a + b + c)$ is a linear transformation.                                                                                        |  | 6 | L2 | CO2 |
| OR        |   |                                                                                                                                                                                                             |  |   |    |     |
| Q.04      | a | Define linearly independent set of vectors and linearly dependent set of vectors. Are the vectors $V_1 = (2, 5, 3)$ , $V_2 = (1, 1, 1)$ , and $V_3 = (4, -2, 0)$ linearly independent? Justify your answer. |  | 7 | L2 | CO2 |

# Gdst Question Paper 201

**L Towne**



## **Gdst Question Paper 201:**

The book delves into Gdst Question Paper 201. Gdst Question Paper 201 is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Gdst Question Paper 201, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Gdst Question Paper 201
- Chapter 2: Essential Elements of Gdst Question Paper 201
- Chapter 3: Gdst Question Paper 201 in Everyday Life
- Chapter 4: Gdst Question Paper 201 in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Gdst Question Paper 201. The first chapter will explore what Gdst Question Paper 201 is, why Gdst Question Paper 201 is vital, and how to effectively learn about Gdst Question Paper 201.
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## Table of Contents Gdst Question Paper 201

1. Understanding the eBook Gdst Question Paper 201
  - The Rise of Digital Reading Gdst Question Paper 201
  - Advantages of eBooks Over Traditional Books
2. Identifying Gdst Question Paper 201
  - 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 Gdst Question Paper 201
  - User-Friendly Interface
4. Exploring eBook Recommendations from Gdst Question Paper 201
  - Personalized Recommendations
  - Gdst Question Paper 201 User Reviews and Ratings
  - Gdst Question Paper 201 and Bestseller Lists
5. Accessing Gdst Question Paper 201 Free and Paid eBooks
  - Gdst Question Paper 201 Public Domain eBooks
  - Gdst Question Paper 201 eBook Subscription Services
  - Gdst Question Paper 201 Budget-Friendly Options
6. Navigating Gdst Question Paper 201 eBook Formats
  - ePub, PDF, MOBI, and More
  - Gdst Question Paper 201 Compatibility with Devices
  - Gdst Question Paper 201 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Gdst Question Paper 201
  - Highlighting and Note-Taking Gdst Question Paper 201
  - Interactive Elements Gdst Question Paper 201
8. Staying Engaged with Gdst Question Paper 201

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Gdst Question Paper 201
9. Balancing eBooks and Physical Books Gdst Question Paper 201
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Gdst Question Paper 201
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Gdst Question Paper 201
- Setting Reading Goals Gdst Question Paper 201
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gdst Question Paper 201
- Fact-Checking eBook Content of Gdst Question Paper 201
  - 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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