

# 17301

**21819**

**3 Hours / 100 Marks**

Seat No. 

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- Instructions* –
- (1) All Questions are *Compulsory*.
  - (2) Illustrate your answers with neat sketches wherever necessary.
  - (3) Figures to the right indicate full marks.
  - (4) Assume suitable data, if necessary.
  - (5) Use of Non-programmable Electronic Pocket Calculator is permissible.

**Marks**

- 1. Solve any TEN of the following:** **20**
- a) At what point on the curve  $y = e^x$ , the slope is 1?
  - b) Find the radius of curvature of the curve  $y = x^3$  at (2, 8).
  - c) Evaluate  $\int \frac{\cos(\log x)}{x} dx$
  - d) Evaluate  $\int \operatorname{cosec}^2(e^x) \times e^x dx$
  - e) Evaluate  $\int x \times a^x dx$
  - f) Evaluate  $\int \frac{1}{(x+3)(x-2)} dx$
  - g) Evaluate  $\int_1^2 \frac{dx}{4x-1}$
  - h) Find the area enclosed by  $y = 3x^2$  and the lines  $x = 1$ ,  $x = 3$ , and  $x$ -axis.

P.T.O.

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## **Table of Contents Msbte Sample Question Paper Applied Mathematics**

1. Understanding the eBook Msbte Sample Question Paper Applied Mathematics
  - The Rise of Digital Reading Msbte Sample Question Paper Applied Mathematics
  - Advantages of eBooks Over Traditional Books
2. Identifying Msbte Sample Question Paper Applied Mathematics
  - 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 Msbte Sample Question Paper Applied Mathematics
  - User-Friendly Interface

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

12. Sourcing Reliable Information of Msbte Sample Question Paper Applied Mathematics
  - Fact-Checking eBook Content of Msbte Sample Question Paper Applied Mathematics
  - 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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