

Sample Question Paper

Course Name : Mechanical Engineering Group

Course Code : AE/FE/ME/MH/ML/PG/PT/PS

Semester : Second

Subject Title : Applied Science (Physics)

Marks : 50

17202

Time:2 Hour

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. Preferably, write the answers in sequential order.

Q.1 Attempt any NINE

18 Marks

- a. State equations of angular motion. State meanings of symbols used in it.
- b. State Newton's third law of motion with suitable examples.
- c. A load is pulled 80m along the horizontal by a force of 800 N at 45° to the horizontal. Calculate work done.
- d. Define centrifugal force.
- e. Draw a circuit diagram for production of ultrasonic waves by piezoelectric method.
- f. State Joule's effect.
- g. What is thermoelectric series? Write Seebeck effect.
- h. State any two properties of photon.
- i. State necessary conditions to obtain photoelectric emission.
- j. State any two scientific applications of X-rays.
- k. Define X-rays.
- l. Define optical pumping.

Q.2 Attempt any FOUR

16 Marks

- a. Define kinetic energy. A vehicle of mass 80 kg is moving with 50 km/hr. Calculate kinetic energy.
- b. Define angle of projection, trajectory, time of flight, range.
- c. State properties of ultrasonic waves.
- d. State any four advantages of NDT methods.
- e. State principle, procedure and applications of ultrasonic testing.
- f. A train crosses a tunnel in 20 second. At the entry of the tunnel its velocity is 80 km/hr and at exit of tunnel it is 40km/hr. Find the length of tunnel.

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Table of Contents Msbte Sample Paper 3 17202

1. Understanding the eBook Msbte Sample Paper 3 17202
 - The Rise of Digital Reading Msbte Sample Paper 3 17202
 - Advantages of eBooks Over Traditional Books
2. Identifying Msbte Sample Paper 3 17202
 - 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 Paper 3 17202
 - User-Friendly Interface
4. Exploring eBook Recommendations from Msbte Sample Paper 3 17202
 - Personalized Recommendations
 - Msbte Sample Paper 3 17202 User Reviews and Ratings
 - Msbte Sample Paper 3 17202 and Bestseller Lists
5. Accessing Msbte Sample Paper 3 17202 Free and Paid eBooks
 - Msbte Sample Paper 3 17202 Public Domain eBooks
 - Msbte Sample Paper 3 17202 eBook Subscription Services
 - Msbte Sample Paper 3 17202 Budget-Friendly Options
6. Navigating Msbte Sample Paper 3 17202 eBook Formats

- ePub, PDF, MOBI, and More
- Msbte Sample Paper 3 17202 Compatibility with Devices
- Msbte Sample Paper 3 17202 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Msbte Sample Paper 3 17202
 - Highlighting and Note-Taking Msbte Sample Paper 3 17202
 - Interactive Elements Msbte Sample Paper 3 17202
- 8. Staying Engaged with Msbte Sample Paper 3 17202
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Msbte Sample Paper 3 17202
- 9. Balancing eBooks and Physical Books Msbte Sample Paper 3 17202
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Msbte Sample Paper 3 17202
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Msbte Sample Paper 3 17202
 - Setting Reading Goals Msbte Sample Paper 3 17202
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Msbte Sample Paper 3 17202
 - Fact-Checking eBook Content of Msbte Sample Paper 3 17202
 - 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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