

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 Sample Question Paper For Physics Msbte

1. Understanding the eBook Sample Question Paper For Physics Msbte
 - The Rise of Digital Reading Sample Question Paper For Physics Msbte
 - Advantages of eBooks Over Traditional Books
2. Identifying Sample Question Paper For Physics Msbte
 - 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 Sample Question Paper For Physics Msbte
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Question Paper For Physics Msbte

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

- Fact-Checking eBook Content of Sample Question Paper For Physics Msbte
 - 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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