

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2017

(CUCBCSS—UG)

Physics/Applied Physics

PHY 3B 03/APY 3B 03—MECHANICS

Time : Three Hours

Maximum : 80 Marks

I. Answer all questions. Each question carries 1 marks (in a word or phrase) :

1. What is rotating frame of reference ?
2. Give an example of fictitious force.
3. A light and heavy body has equal kinetic energies of translation. Which one has the larger momentum ?
4. What do you meant by areal velocity ? Name the law behind it.
5. Give any one example of conservation of angular momentum.
6. What is proper length ?
7. Write down the expression for Kinetic energy in generalized coordinates.
8. What is ether hypothesis ?
9. What is holonomic constraints ?
10. Give the significance of space – time diagram.

(10 × 1 = 10 marks)

II. Answer all questions. Each question carries 2 marks (Answer in two or three sentence) :

11. What is Keplers laws of periods ?
12. What is the principle of the law of conservation of angular momentum ?
13. What is collision ?
14. What is proper mass ?
15. What is meant by simultaneity ?
16. What is Hamilton's principle ?
17. What do you mean by cyclic co-ordinates ?

(7 × 2 = 14 marks)

Turn over

Model Question Paper For Bsc 3rd Semester

Xiaolong Qi



Model Question Paper For Bsc 3rd Semester:

Unveiling the Magic of Words: A Review of "**Model Question Paper For Bsc 3rd Semester**"

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Table of Contents Model Question Paper For Bsc 3rd Semester

1. Understanding the eBook Model Question Paper For Bsc 3rd Semester
 - The Rise of Digital Reading Model Question Paper For Bsc 3rd Semester
 - Advantages of eBooks Over Traditional Books
2. Identifying Model Question Paper For Bsc 3rd 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 Model Question Paper For Bsc 3rd Semester
 - User-Friendly Interface
4. Exploring eBook Recommendations from Model Question Paper For Bsc 3rd Semester
 - Personalized Recommendations
 - Model Question Paper For Bsc 3rd Semester User Reviews and Ratings
 - Model Question Paper For Bsc 3rd Semester and Bestseller Lists

5. Accessing Model Question Paper For Bsc 3rd Semester Free and Paid eBooks
 - Model Question Paper For Bsc 3rd Semester Public Domain eBooks
 - Model Question Paper For Bsc 3rd Semester eBook Subscription Services
 - Model Question Paper For Bsc 3rd Semester Budget-Friendly Options
6. Navigating Model Question Paper For Bsc 3rd Semester eBook Formats
 - ePub, PDF, MOBI, and More
 - Model Question Paper For Bsc 3rd Semester Compatibility with Devices
 - Model Question Paper For Bsc 3rd Semester Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Model Question Paper For Bsc 3rd Semester
 - Highlighting and Note-Taking Model Question Paper For Bsc 3rd Semester
 - Interactive Elements Model Question Paper For Bsc 3rd Semester
8. Staying Engaged with Model Question Paper For Bsc 3rd Semester
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Model Question Paper For Bsc 3rd Semester
9. Balancing eBooks and Physical Books Model Question Paper For Bsc 3rd Semester
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Model Question Paper For Bsc 3rd Semester
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Model Question Paper For Bsc 3rd Semester
 - Setting Reading Goals Model Question Paper For Bsc 3rd Semester
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Model Question Paper For Bsc 3rd Semester
 - Fact-Checking eBook Content of Model Question Paper For Bsc 3rd 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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