

FACULTY OF ENGINEERING & TECHNOLOGY
B.E. (Bridge Course) II – Semester (Main) Examination, June 2013
Subject: Engineering Mechanics

Time: 3 Hours

Max. Marks: 75

Note: Answer all questions of Part A. Answer any Five questions from Part B.
PART – A (25 Marks)

1. What is the ratio of $F_1 : F_2 : R$, if the resultant of two forces F_1 and F_2 acting at a point is R . Assume that, if F_2 is doubled, R is also doubled. (2)
2. Define (a) free body diagram and (b) Principle of transmissibility of forces. (2)
3. What will happen if a block of 950 N weight is kept to be in equilibrium with force 1400 N when co-efficient of friction between the interface is 0.3. (3)



4. Determine co-ordinates of centroids of the following bodies. (3)



5. The shaded section shown in Fig. has an area of 5 cm^2 and a moment of inertia of 30 cm^4 , about axis X_1 . Find moment of inertia about axis X_2 . (2)



6. Determine the mass moment of inertia of a rod (in x-x) placed in standing position, is given below. Its diameter = 600 mm, height = 1900 mm, mass = 3 Kg. (3)



7. A bullet leaves the muzzle of a gun with velocity, $V=740 \text{ m/s}$. Assuming constant acceleration from breech to muzzle, find the time 't' occupied by the bullet in traveling through the gun barrel, which is 740 mm long. (3)
8. If a uniform cylinder of mass 'm' and radius 'r' rolls down an incline from a height 'h' without slipping, the maximum attainable velocity 'v' of its mass centre will be the _____. (2)
 (a) $v = \sqrt{gh}$ (b) $v = \sqrt{\frac{2}{3}gh}$ (c) $v = \sqrt{\frac{4}{3}gh}$ (d) $\sqrt{2gh}$
9. Two balls are projected from the same point in the direction inclined at 60° and 30° to the horizontal. Determine the ratio of velocity of projections if they have same horizontal range. (3)
10. A vehicle enters a curve of 300 m radius at a speed of 16 m/s. If the vehicle increases its speed at a rate of 3 m/s^2 , what will be its total acceleration when it has travelled 300 m along the curve. (2)

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Table of Contents June 2013 97mechanics Paper 41

1. Understanding the eBook June 2013 97mechanics Paper 41
 - The Rise of Digital Reading June 2013 97mechanics Paper 41
 - Advantages of eBooks Over Traditional Books
2. Identifying June 2013 97mechanics Paper 41
 - 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 June 2013 97mechanics Paper 41
 - User-Friendly Interface
4. Exploring eBook Recommendations from June 2013 97mechanics Paper 41
 - Personalized Recommendations
 - June 2013 97mechanics Paper 41 User Reviews and Ratings
 - June 2013 97mechanics Paper 41 and Bestseller Lists

-
5. Accessing June 2013 97mechanics Paper 41 Free and Paid eBooks
 - June 2013 97mechanics Paper 41 Public Domain eBooks
 - June 2013 97mechanics Paper 41 eBook Subscription Services
 - June 2013 97mechanics Paper 41 Budget-Friendly Options
 6. Navigating June 2013 97mechanics Paper 41 eBook Formats
 - ePub, PDF, MOBI, and More
 - June 2013 97mechanics Paper 41 Compatibility with Devices
 - June 2013 97mechanics Paper 41 Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of June 2013 97mechanics Paper 41
 - Highlighting and Note-Taking June 2013 97mechanics Paper 41
 - Interactive Elements June 2013 97mechanics Paper 41
 8. Staying Engaged with June 2013 97mechanics Paper 41
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers June 2013 97mechanics Paper 41
 9. Balancing eBooks and Physical Books June 2013 97mechanics Paper 41
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection June 2013 97mechanics Paper 41
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine June 2013 97mechanics Paper 41
 - Setting Reading Goals June 2013 97mechanics Paper 41
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of June 2013 97mechanics Paper 41
 - Fact-Checking eBook Content of June 2013 97mechanics Paper 41
 - 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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