

CLASS: BTECH
BRANCH: CS/IT/ECE/EEE

SEMESTER: I
SESSION: NOV/2018

SUBJECT: ME1001 BASICS OF MECHANICAL ENGINEERING

TIME: 2 HOURS

FULL MARKS: 25

INSTRUCTIONS:

1. The total marks of the questions are 25.
2. Candidates may attempt for all 25 marks.
3. Before attempting the question paper, be sure that you have got the correct question paper.
4. The missing data, if any, may be assumed suitably.

- Q1 Determine the reactions and the forces in members BF and FE of a truss as shown in Fig.1. [5]

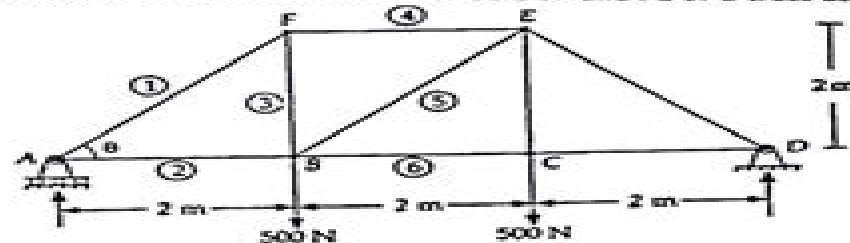


Fig.1

- Q2 (a) Define Poisson's Ratio. [2]
 Q2 (b) A circular rod of 100 mm diameter and 500 mm long is subjected to a tensile force of 1000 kN. Determine modulus of rigidity, bulk modulus and change in volume if Poisson's ratio = 0.3 and $E = 2 \times 10^5 \text{ N/mm}^2$. [3]
- Q3 (a) A roller moves within two conveyor belts, of which top belt moves at the speed of 8 m/s and bottom belt moves at 6 m/s. Determine the linear and angular velocity of the roller if the diameter of the roller is 55 cm. [2]
- Q3 (b) A 100N body is initially stationary on a 45 degree incline. The coefficient of dynamic friction between the block and incline is 0.5. What distance along the incline must the weight slide before it reaches a speed of 40 m/s? [3]
- Q4 (a) A bar AB 5 m long slides in the xy - plane, Point A touches the vertical plane and point B end touches the horizontal plane and makes an angle $\theta = 60^\circ$ with the vertical. The velocity and acceleration of point A at any instant are 10 m/s and 5 m/s^2 respectively in the downward direction. Determine velocity and acceleration of point B. [2]
- Q4 (b) A flywheel of 550 mm diameter is brought uniformly from rest up to a speed of 350 rpm in 20 seconds. Find the velocity and the acceleration of a point on its rim 3 seconds after starting from rest. [3]
- Q5 (a) Define angle of repose. [2]
 Q5 (b) A body of weight 100 N rests on a rough horizontal surface $\mu = 0.3$ and is acted upon by a force applied at an angle of 30 degree to the horizontal. What force is required to just cause the body to slide over the surface? [3]

Mechanical Engineering 2nd Year Paper Presentation 2014

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Table of Contents Mechanical Engineering 2nd Year Paper Presentation 2014

1. Understanding the eBook Mechanical Engineering 2nd Year Paper Presentation 2014
 - The Rise of Digital Reading Mechanical Engineering 2nd Year Paper Presentation 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical Engineering 2nd Year Paper Presentation 2014
 - 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 Mechanical Engineering 2nd Year Paper Presentation 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanical Engineering 2nd Year Paper Presentation 2014
 - Personalized Recommendations
 - Mechanical Engineering 2nd Year Paper Presentation 2014 User Reviews and Ratings
 - Mechanical Engineering 2nd Year Paper Presentation 2014 and Bestseller Lists
5. Accessing Mechanical Engineering 2nd Year Paper Presentation 2014 Free and Paid eBooks
 - Mechanical Engineering 2nd Year Paper Presentation 2014 Public Domain eBooks
 - Mechanical Engineering 2nd Year Paper Presentation 2014 eBook Subscription Services
 - Mechanical Engineering 2nd Year Paper Presentation 2014 Budget-Friendly Options

6. Navigating Mechanical Engineering 2nd Year Paper Presentation 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mechanical Engineering 2nd Year Paper Presentation 2014 Compatibility with Devices
 - Mechanical Engineering 2nd Year Paper Presentation 2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mechanical Engineering 2nd Year Paper Presentation 2014
 - Highlighting and Note-Taking Mechanical Engineering 2nd Year Paper Presentation 2014
 - Interactive Elements Mechanical Engineering 2nd Year Paper Presentation 2014
8. Staying Engaged with Mechanical Engineering 2nd Year Paper Presentation 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanical Engineering 2nd Year Paper Presentation 2014
9. Balancing eBooks and Physical Books Mechanical Engineering 2nd Year Paper Presentation 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanical Engineering 2nd Year Paper Presentation 2014
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mechanical Engineering 2nd Year Paper Presentation 2014
 - Setting Reading Goals Mechanical Engineering 2nd Year Paper Presentation 2014
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mechanical Engineering 2nd Year Paper Presentation 2014
 - Fact-Checking eBook Content of Mechanical Engineering 2nd Year Paper Presentation 2014
 - 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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