

Fifth Semester B.E. Degree Examination, June/July 2013

Dynamics of Machines

Time: 3 hrs.

Max. Marks: 100

- Note:** 1. Answer FIVE full questions, selecting at least TWO questions from each part.
 2. Use of drawing/graph sheets is permitted.
 3. Missing data assume accordingly.

PART - A

1. a. i) Explain the equilibrium of two force members and three force members. (04 Marks)
 ii) Give significance of static force analysis of mechanisms. (02 Marks)
 b. For the static equilibrium of the mechanism shown in Fig.Q1(b), find the required input torque T_2 . The dimensions are $AB = 150$ mm, $BC = AD = 500$ mm, $DC = 300$ mm, $CE = 100$ mm and $EF = 450$ mm. (14 Marks)

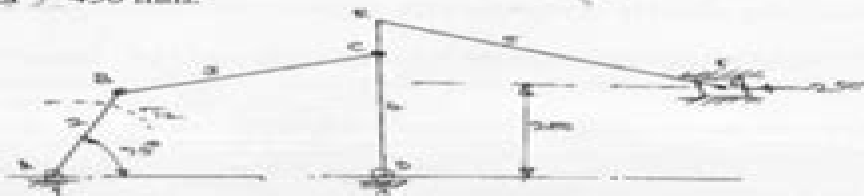


Fig.Q1(b)

2. a. What is the function of a flywheel? How does it differ from that of a governor? (05 Marks)
 b. A single cylinder, four stroke I.C. engine develops 30 kW of power at 300 rpm. The turning moment diagram for the expansion and compression strokes may be taken as isosceles triangles on bases 0 to π and 3π to 4π radius respectively and the work done during compression is 25% of that of during expansion. Work done during suction and exhaust is neglected. Find the mass moment of inertia of flywheel to keep the speed fluctuations 1.5% on either side of the mean speed. Sketch the T.M. diagram and mark the points of max. and min speed on the diagram. (15 Marks)
3. a. Explain: i) Slip, ii) Creep, iii) Initial tension and iv) Centrifugal tension in belt drive. (06 Marks)
 b. An open belt drive is required to transmit 10 kW from a motor running at 600 rpm. The belt is 12 mm thick and has a mass density of 0.001 gm/mm³. Safe stress in the belt is not to exceed 2.5 N/mm². Effective diameter of the driving pulley is 250 mm whereas the speed of the driven pulley is 220 rpm. The two shafts are 1.25 m apart. If the coefficient of friction is 0.25, determine the width of the belt. (14 Marks)
4. A shaft carries four masses A, B, C and D, 200, 300, 240 and 360 kg respectively, revolving at radii 90, 70, 100 and 120 mm respectively. The distance from the plane A, other planes are at 270 mm, 420 mm and 720 mm respectively. Angle between the crank A and B is 45° , B and C is 75° , C and D is 130° . Balancing masses are replaced 120 mm and 100 mm from D and A respectively. The distance between them being 500 mm. Find the balancing masses and their angular positions if they are placed at a radius of 100 mm. (20 Marks)

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Table of Contents Sample Question Paper Of Msbte 5th Semester Mechanical

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

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