Course: MEC107::ENGINEERING MECHANICS

Time Allowed: 1.5 hr.

Man Marks: 50

- 1. This paper contains 5 questions divided in three parts.
- 2. Part A is compulsory.
- 3. From Part B & C taken together (i.e. question 3 to 5) attempt any 2 questions of 0
- 4. Attempt all parts of the question chosen.
- 5. The marks assigned to each question are shown at the end of each question.
- Answer all questions in serial order.

Part A

Q1.a) What is center of gravity of a body?

[2 Marks]

b) What are the equilibrium conditions?

[2 Marks]

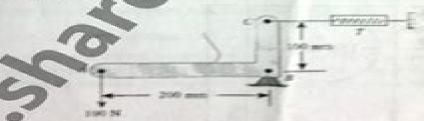
c) Explain the Three Fundamental's Law of Newton.

[2 Marks]

d) Explain Free body diagram with digram.

- [2 Marks]
- e) What are the assumption made, while finding but the forces in the various members of a Truss structure? [2 Marks]
- Q2.a) Explain Parallelogram law and proof at a discrem.

- [5 Marks]
- b) Figure shows a crank lever ABC with the tension spring (T) the lever weighs 0.2 N/mm. Determine the tension developed in the spring.



[5 Marks]

Part B

Q3. An encoded truss is loaded as shown. Determine the nature and magnitude of the forces in the members BC, GC and GF of the truss.

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- 1. Understanding the eBook Mechanical Engineering Test Papers
 - The Rise of Digital Reading Mechanical Engineering Test Papers
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Mechanical Engineering Test Papers
 - 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 Test Papers
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mechanical Engineering Test Papers
 - Personalized Recommendations
 - Mechanical Engineering Test Papers User Reviews and Ratings
 - Mechanical Engineering Test Papers and Bestseller Lists
- 5. Accessing Mechanical Engineering Test Papers Free and Paid eBooks
 - Mechanical Engineering Test Papers Public Domain eBooks
 - Mechanical Engineering Test Papers eBook Subscription Services
 - Mechanical Engineering Test Papers Budget-Friendly Options
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- 7. Enhancing Your Reading Experience
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 - Interactive Elements Mechanical Engineering Test Papers
- 8. Staying Engaged with Mechanical Engineering Test Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mechanical Engineering Test Papers
- 9. Balancing eBooks and Physical Books Mechanical Engineering Test Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mechanical Engineering Test Papers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanical Engineering Test Papers
 - Setting Reading Goals Mechanical Engineering Test Papers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanical Engineering Test Papers
 - Fact-Checking eBook Content of Mechanical Engineering Test Papers
 - Distinguishing Credible Sources
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 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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