

**Course: MEC107::ENGINEERING MECHANICS**

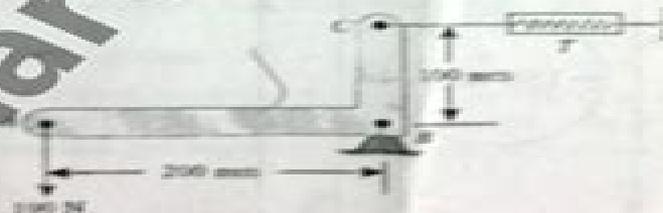
Time Allowed: 1.5 hr.

Max. 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 your choice.
4. Attempt all parts of the question chosen.
5. The marks assigned to each question are shown at the end of each question.
6. 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 diagram. [2 Marks]
- e) What are the assumption made, while finding out the forces in the various members of a Truss structure? [2 Marks]
- Q2. a) Explain Parallelogram law and proof with diagram. [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. A truss is loaded as shown. Determine the nature and magnitude of the forces in the members BC, GC and GF of the truss.

# Assistant Engineer Question Paper Mechanical Engineering

**Tao Wei**



**Assistant Engineer Question Paper Mechanical Engineering:**

## **Assistant Engineer Question Paper Mechanical Engineering** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Assistant Engineer Question Paper Mechanical Engineering**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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