

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 out of 3.
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. An inclined 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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Lingjun Ying



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