# 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]

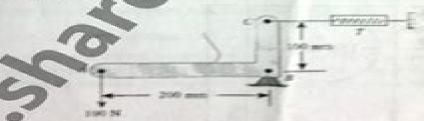
c) Explain the Three Fundamental's Law of Newton.

[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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**Minjie Lin** 

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