Scheme-E

Sample Question Paper

- Course Name: Mechanical Engineering Group
- Course Code : ME/PT/PG/AE/MH
- Semester : Fourth
- Subject Title: Theory of Machines and Mechanisms
- Marks : 100

Time: 3 Hour

12089

Instructions:

- 1. All questions are compulsory.
- Figures to the right indicate full marks.
- Use of non-programmable calculator is permissible.
- Illustrate your answer with neat sketches wherever necessary.
- Preferably, write the answers in sequential order.

Q.1 A) Attempt Any SIX of the following:

12 Marks

- a) Define kinematic link and kinematic pair.
- b) List type of constrained motion.
- c) Define rolling pair with one example.
- d) Study the coupler rod of locomotive given in figure and identify the type of kinematic pairs.



- e) List four types of followers.
- Define the pressure angle as related to cam.
- g) State advantages of Rope drive.
- State causes of vibrations in machines.

Q.1 B) Attempt any TWO of the following:

- 08 Marks
- a) Draw a sketch and explain the working principle of Geneva mechanism.
- b) Draw labeled sketch of Oldhams Coupling.
- c) Distinguish between machine and structure on the basis of
 - i) Motion ii) Type of entity transferred iii) Mechanism iv) Application

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