

Sample Test Paper - I

Course Name : Diploma in Mechanical Engineering

Course Code : ME/MHE/MI

Semester : Sixth

Subject Title : Design of Machine Elements

Marks : 25

17610

Time:1 Hour

Instructions:

1. All questions are compulsory.
2. Illustrate your answers with neat sketches wherever necessary.
3. Figures to the right indicate full marks.
4. Assume suitable data if necessary.
5. Preferably, write the answers in sequential order.

Q1. Attempt any THREE**3 x 3 = 9 Marks**

- a) State any six design consideration in designing the machine element.
- b) Define Fatigue, Factor of Safety and Creep.
- c) List steps in designing Bell crank lever.
- d) Classify rigid coupling. State any one application of each.

Q2. Attempt any ONE**1 x 8 = 8 Marks**

- a) Draw neat sketch showing all details of cotter joint. State strength equations for each component with suitable failure cross sectional area.
- b) Describe the importance of aesthetic considerations in design related to shape, size, color and surface finish.

Q3. Attempt any ONE**1 x 8 = 8 Marks**

- a) A line shaft is driven by means of a motor placed vertically below it. The pulley on the line shaft is 1.5 meter in diameter and has belt tension 5.4 kN and 1.8 kN on the right side and slack side of belt respectively. Both these tension may be assumed to be vertical. If the pulley be overhang from the shaft, the distance of the centre line of the pulley from the center line of the bearing being 400mm. Find the diameter of shaft, assuming maximum allowable shear stress of 42MPa.
- b) Design a CI protective type flange coupling to transmit 15K W at 900 rpm from an electric motor to a compressor. Assume shear stress for shaft, bolt and key materials = 40MPa, Crushing stress for bolt and key = 80MPa and shear stress for CI material = 8MPa. Assume suitable data if required.

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