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IV Semester Diploma Examination, May 2011

MECHANICAL ENGINEERING BOARD

MACHINE DESIGN & THEORY OF MACHINES

Time : 3 Hours]

[Max. Marks : 100

- Notes :**
- (1) Question No. – 1 is compulsory.
 - (2) Answer any two full questions from Sections – II, III & IV.
 - (3) Missing data may be suitably assumed.

SECTION – I

1. (a) Fill in the blanks : 5 × 1 = 5
- (i) Shaft with collars at both ends fitted in a circular hole is _____ pair.
 - (ii) Two shafts A and B are of the same material. Diameter of A is twice as that of B. The power transmitted by the shaft A will be _____ times that of by Shaft B.
 - (iii) The frictional torque transmitted in a flat pivot bearing considering uniform pressure is _____.
 - (iv) The size of the cam depends upon _____.
 - (v) The power transmitted by a belt is maximum when the maximum tension is equal to _____ times the centrifugal tension.
- (b) Sketch and explain elliptical trammel. 5

SECTION – II

2. (a) Define the following : 4
- (i) Kinematic pair
 - (ii) Structure
- (b) Differentiate machine and structure. 4
- (c) Explain with neat sketch, the Oldham's coupling. 7

[Turn over

Mechanical Engineering Model Answer Paper Diploma

RJ Shavelson



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