Register Number

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 :      $5 \times 1 = 5$

    (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

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