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Number

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IV Semester Diploma Examination, May 2011

MECHANICAL ENGINEERING BOARD

## MACHINE DESIGN &amp; 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

# Diploma In Mechanical Engineering Question Paper

**Zhe Xu**



**Diploma In Mechanical Engineering Question Paper:**

## Reviewing **Diploma In Mechanical Engineering Question Paper**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Diploma In Mechanical Engineering Question Paper**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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