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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 :  $5 \times 1 = 5$

- (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

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**The Journal of Education** ,1900 **Locomotive Engineer** ,1898 **Power and the Engineer** ,1898 **Railway Mechanical and Electrical Engineer** ,1895 Machinery Lester Gray French,1898 *The American Federationist* ,1895 Includes separately paged Junior union section The Chemical News and Journal of Physical Science ,1894 **Electrical World** ,1895 Cheap and Tasteful Dwellings Jan Jennings,2005 In 1879 Carpentry and Building magazine launched its first house design competition for a cheap house Forty two competitions eighty six winning designs and a slew of near winners and losers resulted in a body of work that offers an entire history of an architectural culture The competitions represented a vital period of transition in delineating roles and responsibilities of architectural services and building trades The contests helped to define the training education and values of practical architects and to solidify house planning ideals The lives and work of ordinary architects who competed in Carpentry and Building contests offer a reinterpretation of architectural

professionalization in this time period Cheap and Tasteful Dwellings thoroughly explores the results of these competitions conducted over a thirty year period from 1879 to 1909. The book outlines the philosophy behind and procedures developed for running the competitions. It looks at characteristics of the eighty six winners of the competitions, examines the nature of architectural practices during the period, analyzes the winning competition designs and provides biographical details of competition winners and losers. A landmark book in architectural history, Cheap and Tasteful Dwellings makes a compelling case for the theory of convenient arrangement, its history, its role, its principles, its relationship to contemporary interior design education and its meaning to American architecture. More importantly, the book explains the impact of Carpentry and Building's contests in furthering the tenets of convenient arrangement for house design. By using extensive material from the magazine Jennings leaves little doubt as to how important this overlooked story is to the history of American architecture as a whole. Engineering News and American Contract Journal, 1893    Power, 1893    **Machinery**, 1898

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