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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 : $5 \times 1 = 5$

- (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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Mechanical Engineering Principles John Bird,Carl Ross,2014-11-27 A student friendly introduction to core engineering topics This book introduces mechanical principles and technology through examples and applications enabling students to develop a sound understanding of both engineering principles and their use in practice These theoretical concepts are supported by 400 fully worked problems 700 further problems with answers and 300 multiple choice questions all of which add up to give the reader a firm grounding on each topic The new edition is up to date with the latest BTEC National specifications and can also be used on undergraduate courses in mechanical civil structural aeronautical and marine engineering together with naval architecture A further chapter has been added on revisionary mathematics since progress in engineering studies is not possible without some basic mathematics knowledge Further worked problems have also been added throughout the text New chapter on revisionary mathematics Student friendly approach with numerous worked problems multiple choice and short answer questions exercises revision tests and nearly 400 diagrams Supported with free online material for students and lecturers Readers will also be able to access the free companion website where they will find videos of practical demonstrations by Carl Ross Full worked solutions of all 700 of the further problems will be available for both lecturers and students for the first time

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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 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 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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