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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 Design Nprevious Question Paper

Joacim Rocklöv



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EBOOK: The Mechanical Design Process David Ullman,2009-05-16 The fourth edition of The Mechanical Design Process combines a practical overview of the design process with case material and real life engineering insights Ullman s work as an innovative designer comes through consistently and has made this book a favorite with readers New in this edition are examples from industry and over twenty online templates that help students prepare complete and consistent assignments while learnign the material This text is appropriate primarily for the Senior Design course taken by mechanical engineering students though it can also be used in design courses offered earlier in the curriculum Working engineers also find it to be a readable practical overview of the modern design process *Civil Engineering Solved Papers* YCT Expert Team , 2023 24 WBPSCE JE AE Fundamentals of Machine Design Ajeet Singh,2017-09-15 Discusses the basic concepts stresses involved and design procedures for simple machine elements **Fundamentals of Machine Design: Volume 1** Ajeet Singh,2017-09-15 Providing extensive coverage and comprehensive discussion on the fundamental concepts and processes of machine design this book begins with detailed discussion of the types of materials their properties and selection criteria for designing The text the first volume of a two volume set covers different types of stresses including direct stress bending stress torsional stress and combined stress in detail It goes on to explain various types of temporary and permanent joints including pin joint cotter joint threaded joint and welded joint Finally the book covers the design procedure of keys cotters couplings shafts levers and springs Also examined are applications of different types of joints used in boilers bridges power presses automobile springs crew jack and coupling **Civil Engineering Study Material Solved Papers** YCT

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University Lviv Polytechnic National University the Polish Operational and Systems Society Warsaw University of Technology and the International Research Association of Modern Education and Computer Science The book covers a variety of topics including cutting edge research in computer science artificial intelligence engineering techniques smart logistics and knowledge representation with educational applications The book is an invaluable resource for academics graduate students engineers management professionals and undergraduate students who are interested in computer science and its applications in engineering and education *Marine Engineering* ,1897 **MECHANICAL ENGINEERING (UPPSC AE)** YCT EXPERT TEAM, UPPSC AE MECHANICAL ENGINEERING PRACTICE WORK BOOK **Proceedings of the 33rd International MATADOR Conference** David R. Hayhurst,2012-12-06 by Conference Chairman n1 It is my pleasure to introduce this volume of Proceedings for the 33 MATADOR Conference The Proceedings include 83 refereed papers submitted from 19 countries on 4 continents 00 The spread of papers in this volume reflects four developments since the 32 MATADOR Conference in 1997 i the power of information technology to integrate the management and control of manufacturing systems ii international manufacturing enterprises iii the use of computers to integrate different aspects of manufacturing technology and iv new manufacturing technologies New developments in the manufacturing systems area are globalisation and the use of the Web to achieve virtual enterprises In manufacturing technology the potential of the following processes is being realised rapid prototyping laser processing high speed machining and high speed machine tool design And at the same time in the area of controls and automation the flexibility and integration ability of open architecture computer controllers are creating a wide range of opportunities for novel solutions Up to date research results in these and other areas are presented in this volume The Proceedings reflect the truly international nature of this Conference and the way in which original research results are both collected and disseminated The volume does not however record the rich debate and extensive scientific discussion which took place during the Conference I trust that you will find this volume to be a permanent record of some of the research carried out in the last two years and *Engineering World* ,1907 questions and answers relating to modern automobile design, construction, driving and repair victor w. page,1913 **Score Plus CBSE Sample Question Paper with Model Test Papers in English Language and Literature (Subject Code - 184) for Class 10 Term II Exam 2021-22** Goyal Brothers Prakashan,2022-01-01 Score Plus CBSE Sample Question Paper with Model Test Papers in English Language and Literature Subject Code 184 for Class 10 Term II Exam 2021 22 As per the latest reduced and Bifurcated syllabus for term ii examinations to be held in March April 2022 CBSE Sample Question Paper Solved with Marking Scheme for term ii examination March april 2022 10 Model test Papers solved based on the latest CBSE sample Question Paper issued by CBSE for term ii examinations to be held in March April 2022 5 Model test Papers unsolved based on the latest CBSE sample Question Paper issued by CBSE for term ii examinations to be held in March April 2022 *Power and the Engineer* ,1898 *The Iron Age* ,1929 *Software Engineering* Sajan Mathew,2007 This book is a comprehensive

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