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Number

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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
- Shaft with collars at both ends fitted in a circular hole is _____ pair.
 - 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.
 - The frictional torque transmitted in a flat pivot bearing considering uniform pressure is _____.
 - The size of the cam depends upon _____.
 - 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
- Kinematic pair
 - Structure
- (b) Differentiate machine and structure. 4
- (c) Explain with neat sketch, the Oldham's coupling. 7

[Turn over

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G Psacharopoulos



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MECHANICAL ENGINEERING (2019 SSC JE) YCT EXPERT TEAM, 2019 SSC JE MECHANICAL ENGINEERING SOLVED PAPERS *American Machinist*, 1895 **Study of Engineering and Career** J Vinay Kumar, 2018-04-20 There are many ways to apply knowledge to achieve a successful career Different people have used different ideologies get to the top What are the characteristics that will help you achieve success This book caters not only to students stepping into the engineering fields or the corporate world for the first time but also to those who are stuck in the wrong profession The book highlights the importance of knowing your field of education the importance of personality finding the right opportunity in different fields of work choosing the right first employer and other important decisions related to your career This book is an essential read for anyone who wants to enter the field of engineering The volume includes a good number of illustrations with detailed notes *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 cotten 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 Expert

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