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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

# Mechanical Engineering 3rd Sem Question Papers

**Padhraic Smyth**



### **Mechanical Engineering 3rd Sem Question Papers:**

*Systems in Mechanical Engineering* Anup Goel,2021-01-01 Mechanical engineering as its name suggests deals with the mechanics of operation of mechanical systems This is the branch of engineering which includes design manufacturing analysis and maintenance of mechanical systems It combines engineering physics and mathematics principles with material science to design analyse manufacture and maintain mechanical systems This book covers the field requires an understanding of core areas including thermodynamics material science manufacturing energy conversion systems power transmission systems and mechanisms This book includes basic knowledge of various mechanical systems used in day to day life My hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge Elements of Mechanical Engineering(GTU) Sadhu Singh,2010 The book strictly complies with the new syllabus of Gujrat Technological University Ahmedabad for B E First year of all braches of Engineering The subject matter is presented in a graded stepwise easytofollow style Each chapter includes MultipleChoice Questions Review Questions and Exercises for easy recapitulation **B.Sc. Sem.3 & 4 and 2nd year**

**Chemistry old question papers** PRAHSIDDH Educare,2024-06-05 Examination conducted by Bhavnagar University like B Sc Chemistry There is a set of old question papers of semester 2 and 3 as well as second year *Engineering Mathematics: Volume II* E. Rukmangadachari,2012 **B.Sc. Sem.1 & 2 and 1 year Chemistry old question papers** PRAHSIDDH Educare,2024-05-28 Examination conducted by Bhavnagar University like B Sc Chemistry There is a set of old question

papers of semester 1 and 2 as well as first year Numerical Methods & Optimization Anup Goel,2021-01-01 Numerical method is a mathematical tool designed to solve numerical problems The implementation of a numerical method with an appropriate convergence check in a programming language is called a numerical algorithm Numerical analysis is the study of algorithms that use numerical approximation for the problems of mathematical analysis Numerical analysis naturally finds application in all fields of engineering and the physical sciences Numerical methods are used to approach the solution of the problem and the use of computer improves the accuracy of the solution and working speed Optimization is the process of finding the conditions that give the maximum or minimum value of a function For optimization purpose linear programming technique helps the management in decision making process This technique is used in almost every functional area of business This book include flowcharts and programs for various numerical methods by using MATLAB language My hope is that this book through its careful explanations of concepts practical examples and figures bridges the gap between knowledge and proper application of that knowledge *Mechanical Engineering* ,1919 **Journal of Gas Lighting and Water Supply** ,1915 **Journal of the American Society of Mechanical Engineers** ,1915 **THERMEC 2011 T.** Chandra,M. Ionescu,Diego Mantovani,2012-01-03 THERMEC 2011 International Conference on PROCESSING MANUFACTURING OF ADVANCED MATERIALS Processing Fabrication Properties Applications August 1 5 2011 Quebec

City Canada    *Mechanical World and Engineering Record* ,1939    **Abstract Bulletin of the Institute of Paper Chemistry** ,1988-10    The Literary Digest Edward Jewitt Wheeler,Isaac Kaufman Funk,William Seaver Woods,Arthur Stimson Draper,Wilfred John Funk,1902    *The Engineer* ,1904    **The Builder** ,1897    **Engineering Review** ,1902  
**Engineering Record, Building Record and Sanitary Engineer** ,1894    **Aeronautical Engineering** ,1988 A selection of annotated references to unclassified reports and journal articles that were introduced into the NASA scientific and technical information system and announced in Scientific and technical aerospace reports STAR and International aerospace abstracts IAA    The Encyclopædia Britannica Hugh Chisholm,1911    *The Mechanical World* ,1916

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