

SCHEME - E

Sample Test Paper – I

Course Name : Civil, Mechanical and Electrical Engineering group

Course Code : CE/CS/CR/ME/PG/PT/AE/MH/FE/EE/EP

Semester : Second

Subject Title : Engineering Mechanics

Max Marks : 25

12015

Time: 1 Hour

Instructions:

- 1] All questions are compulsory.
- 2] Figures to the right indicate full marks.
- 3] Use of non-programmable calculator is permissible.

Q.1 Attempt THREE of the following:

(3 x 3 = 9)

- a) What is the meaning of Vector quantity? Give two example.
- b) State three characteristics of the couple.
- c) Define Equilibrant for coplanar concurrent force system.
- d) State Lami's theorem.
- e) State relationship between resultant & equilibrant.

Q.2 Attempt TWO of the following:

(4 x 2 = 8)

- a) Two forces of magnitudes 30 N and 50 N are acting at a point making an angle of 40° between them. Calculate the magnitude and the position of resultant with respect to 30 N force.
- b) Calculate the moment at a point 'A' for the plate as shown in fig.-1.

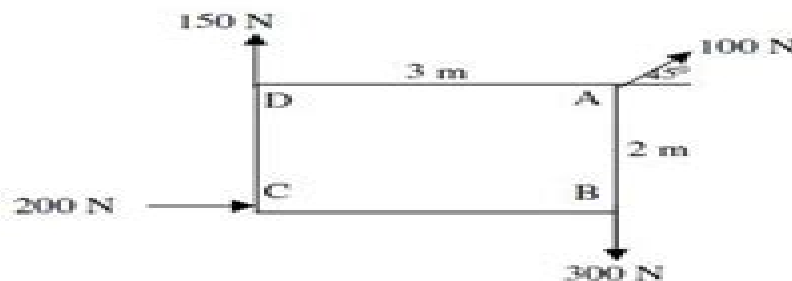


Fig.- 1
[Q no. 2 (b)]

Mechanics Sample Question Paper Second Semester Poly

Ian Milne, R. O. Ritchie, B.L. Karihaloo

Mechanics Sample Question Paper Second Semester Poly:

The Paper Industry, 1926 **English Mechanic and Mirror of Science**, 1869 *English Mechanic and World of Science*, 1871 **Applied Mechanics Reviews**, 1980 *Nuclear Science Abstracts*, 1974-07 Energy Research Abstracts, 1990 **Aquananotechnology** David E. Reisner, T. Pradeep, 2014-09-24 The world's fresh water supplies are dwindling rapidly even wastewater is now considered an asset By 2025 most of the world's population will be facing serious water stresses and shortages Aquananotechnology Global Prospects breaks new ground with its informative and innovative introduction of the application of nanotechnology to the remediation of contaminated water for drinking and industrial use It provides a comprehensive overview from a global perspective of the latest research and developments in the use of nanotechnology for water purification and desalination methods The book also covers approaches to remediation such as high surface area nanoscale media for adsorption of toxic species UV treatment of pathogens and regeneration of saturated media with applications in municipal water supplies produced water from fracking ballast water and more It also discusses membranes desalination sensing engineered polymers magnetic nanomaterials electrospun nanofibers photocatalysis endocrine disruptors and Al₁₃ clusters It explores physics based phenomena such as subcritical water and cavitation induced sonoluminescence and fog harvesting With contributions from experts in developed and developing countries including those with severe contamination such as China India and Pakistan the book's content spans a wide range of the subject areas that fall under the aquananotechnology banner either squarely or tangentially The book strongly emphasizes sorption media with broad application to a myriad of contaminants both geogenic and anthropogenic keeping in mind that it is not enough for water to be potable it must also be palatable **Comprehensive Structural Integrity** Ian Milne, R. O. Ritchie, B.L. Karihaloo, 2003-07-25 The aim of this major reference work is to provide a first point of entry to the literature for the researchers in any field relating to structural integrity in the form of a definitive research reference tool which links the various sub disciplines that comprise the whole of structural integrity Special emphasis will be given to the interaction between mechanics and materials and structural integrity applications Because of the interdisciplinary and applied nature of the work it will be of interest to mechanical engineers and materials scientists from both academic and industrial backgrounds including bioengineering interface engineering and nanotechnology The scope of this work encompasses but is not restricted to fracture mechanics fatigue creep materials dynamics environmental degradation numerical methods failure mechanisms and damage mechanics interfacial fracture and nano technology structural analysis surface behaviour and heart valves The structures under consideration include pressure vessels and piping off shore structures gas installations and pipelines chemical plants aircraft railways bridges plates and shells electronic circuits interfaces nanotechnology artificial organs biomaterial prostheses cast structures mining and more Case studies will form an integral part of the work

English Mechanic and Mirror of Science and Arts, 1869 **Resources in Education**, 1996-04 English Mechanic

and Mirror of Science and Art ,1892 Building Systems Design ,1929 **The Engineering Index Annual** ,1993 Since its creation in 1884 Engineering Index has covered virtually every major engineering innovation from around the world It serves as the historical record of virtually every major engineering innovation of the 20th century Recent content is a vital resource for current awareness new production information technological forecasting and competitive intelligence The world s most comprehensive interdisciplinary engineering database Engineering Index contains over 10 7 million records Each year over 500 000 new abstracts are added from over 5 000 scholarly journals trade magazines and conference proceedings Coverage spans over 175 engineering disciplines from over 80 countries Updated weekly **Scientific and Technical Aerospace Reports** ,1995 Practical Mechanic ,1859 *The Journal of the Worcester Polytechnic Institute* ,1927 **Technical Instruction** United States. Bureau of Education,1870 On vocational and technical institutions in Europe with data on number of institutions enrollment teachers curricula and education spending for selected European countries with some detail by institution and sex The Engineer ,1867 **Catalog of National Bureau of Standards Publications, 1966-1976: pt. 1-2. Key word index** United States. National Bureau of Standards,1978 *Mechanics Magazine* John I Knight,1870

Reviewing **Mechanics Sample Question Paper Second Semester Poly**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Mechanics Sample Question Paper Second Semester Poly**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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