



Back/Scholarship Exam – 2081/2082 Chaitra/Baishakh

Program: Diploma in Civil/Hydropower Engg.

Full Marks: 80

Year/Part: II/I (2013, 2017) © Arjun

Pass Marks: 32

Subject: Applied Mechanics

Time: 3 hrs.

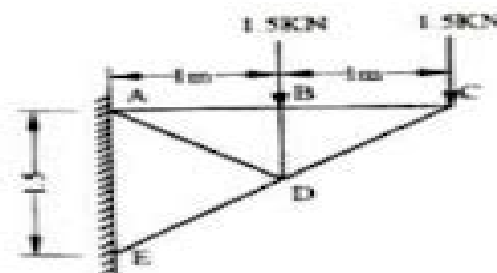
Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.



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Attempt any **FIVE** questions.

1. a. Define rigid body, deformable body. State Lami's theorem of three coplanar forces. Write down the equations of static equilibrium. [6]
- b. The following forces act a point: [10]
 - i. 20 N inclined at 30° towards North of East
 - ii. 25 N towards north
 - iii. 30 N towards west
 - iv. 35 N inclined at 40° towards south of west
 Find the magnitude and direction of resultant forces.
2. a. Define axial force, shear force and bending moment with diagrams. What are the different types of loads acting in a structure? Write down the different types of support with figures and its degree of freedom. [3+2+3]
- b. Determine the forces in each member of truss as shown in figure. Tabulate the results stating whether they are in tension or compression. [8]



- i. a. Define friction, Centre of gravity, moment of inertia, couple, radius of gyration and angle of friction. [6]

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Cont.

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The Paper Industry, 1926 English Mechanic and Mirror of Science, 1870 **Sessional Papers** Great Britain. Parliament. House of Commons, 1904 *English Mechanic and World of Science*, 1871 **Parliamentary Papers** Great Britain. Parliament. House of Commons, 1904 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 English Mechanic and Mirror of Science and Art, 1891 **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

Documents of the Senate of the State of New York New York (State). Legislature. Senate,1901 *Annual Report*
 University of the State of New York. College Department,1899 Annual Report University of the State of New York.
 College Dept,1899 Mechanics magazine ,1870 *Mechanics Magazine* John I Knight,1870 **Joint Volumes of**
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