P7

[Total No. of Pages: 3

FE/INSEM/APR-7

F.E. (All) (Semester - II)

101011: ENGINEERING MECHANICS

(2019 Pattern)

Time : 1 Hour]

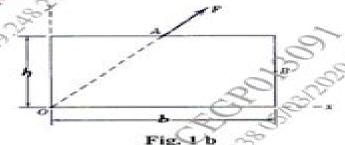
[Max. Marks: 30

Instructions to the candidates :

- 1) Answer Q.1 or Q.2, Q.3 or Q.4.
- 2) Figures to the right indicate full marks.
- 3) Assume suitable data, if necessary.
- 4) Use of electronic pocket calculator is allowed in the examination.
- 5) Use of cell phone is prohibited in the examination hall.
- Q1) a) The resultant of two forces P and Q is 1400 N vertical. Determine the force Q and the corresponding angle 0 for the system of forces as shown in Fig. 1 a.
 [6]



b) Points A & B are mid points of sides of rectangle. Replace the given force F acting at A by equivalent force-couple system at point B as shown in Fig. 1 b. [6]



State Varignon's theorem and principle of transmissibility.

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Engineering Mechanics Paper Pattern For First Year

FIB - International Federation for Structural Concrete

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Engineering Mechanics, 1882 Engineering Mechanics Devoted to Mechanical Civil, Mining and Electrical Structural Engineering, Mechanics and Computation A. Zingoni, 2001-03-16 Following on from the Engineering ,1882 International Conference on Structural Engineering Mechanics and Computation held in Cape Town in April 2001 this book contains the Proceedings in two volumes There are over 170 papers written by Authors from around 40 countries worldwide The contributions include 6 Keynote Papers and 12 Special Invited Papers In line with the aims of the SEMC 2001 International Conference and as may be seen from the List of Contents the papers cover a wide range of topics under a variety of themes There is a healthy balance between papers of a theoretical nature concerned with various aspects of structural mechanics and computational issues and those of a more practical nature addressing issues of design safety and construction As the contributions in these Proceedings show new and more efficient methods of structural analysis and numerical computation are being explored all the time while exciting structural materials such as glass have recently come onto the scene Research interest in the repair and rehabilitation of existing infrastructure continues to grow particularly in Europe and North America while the challenges to protect human life and property against the effects of fire earthquakes and other hazards are being addressed through the development of more appropriate design methods for buildings bridges and other engineering structures Heating, Ventilating and Sanitary Plumbing, 1909 2nd International PhD Symposium in Budapest Hungary FIB - International Federation for Structural Concrete, 1998-08-01 Engineering, 1892

Scientific American, 1880 Monthly magazine devoted to topics of general scientific The American Garden ,1882 Gas Age ,1912 Includes summaries of proceedings and addresses of annual meetings of various gas associations interest L C set includes an index to these proceedings 1884 1902 issued as a supplement to Progressive age Feb 15 1910 Iournal of Research of the National Bureau of Standards ,1967 Journal of Research United States. National Bureau of Standards, 1968 Journal of Research of the National Bureau of Standards United States. National Bureau of Standards, 1968 Gas World ,1921 Perspectives in Civil Engineering Jeffrey S. Russell, 2003-01-01 This report contains 27 papers that serve as a testament to the state of the art of civil engineering at the outset of the 21st century as well as to commemorate the ASCE's Sesquicentennial Written by the leading practitioners educators and researchers of civil engineering each of these peer reviewed papers explores a particular aspect of civil engineering knowledge and practice Each paper explores the development of a particular civil engineering specialty including milestones and future barriers constraints and opportunities The papers celebrate the history heritage and accomplishments of the profession in all facets of practice including construction facilities special structures engineering mechanics surveying and mapping irrigation and water quality forensics computing materials geotechnical engineering hydraulic engineering and transportation engineering While each paper is unique collectively they provide a snapshot of the profession while offering thoughtful predictions of

likely developments in the years to come Together the papers illuminate the mounting complexity facing civil engineering stemming from rapid growth in scientific knowledge technological development and human populations especially in the last 50 years An overarching theme is the need for systems level approaches and consideration from undergraduate education through advanced engineering materials processes technologies and design methods and tools These papers speak to the need for civil engineers of all specialties to recognize and embrace the growing interconnectedness of the global infrastructure economy society and the need to work for more sustainable life cycle oriented solutions While embracing the past and the present the papers collected here clearly have an eye on the future needs of ASCE and the civil engineering profession Journal of Gas Lighting and Water Supply ,1913 Syllabus for the Session 1898-99 Municipal Technical School (Manchester, England),1898 Journal of Engineering Mechanics ,2004 The Electrical Review ,1899 The Engineer ,1883 Research and Applications in Structural Engineering, Mechanics and Computation Alphose Zingoni, 2013-08-15 Research and Applications in Structural Engineering Mechanics and Computation contains the Proceedings of the Fifth International Conference on Structural Engineering Mechanics and Computation SEMC 2013 Cape Town South Africa 2 4 September 2013 Over 420 papers are featured Many topics are covered but the contributions may be seen to fall

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