

CLASS: BTECH  
BRANCH: CS/IT/ECE/EEE

SEMESTER: I  
SESSION: NOV/2018

SUBJECT: ME1001 BASICS OF MECHANICAL ENGINEERING

TIME: 2 HOURS

FULL MARKS: 25

**INSTRUCTIONS:**

1. The total marks of the questions are 25.
2. Candidates may attempt for all 25 marks.
3. Before attempting the question paper, be sure that you have got the correct question paper.
4. The missing data, if any, may be assumed suitably.

- Q1 Determine the reactions and the forces in members BF and FE of a truss as shown in Fig.1. [5]

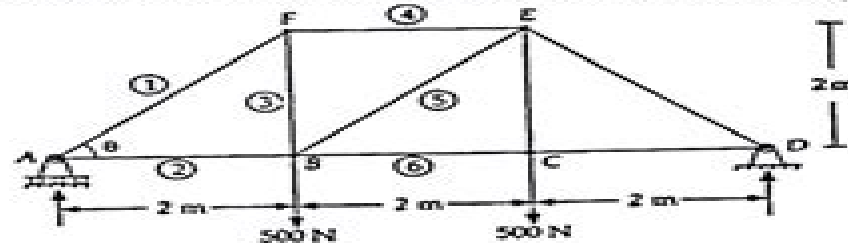


Fig. 1

- Q2 (a) Define Poisson's Ratio. [2]  
 Q2 (b) A circular rod of 100 mm diameter and 500 mm long is subjected to a tensile force of 1000 kN. Determine modulus of rigidity, bulk modulus and change in volume if Poisson's ratio = 0.3 and  $E = 2 \times 10^5 \text{ N/mm}^2$ . [3]
- Q3 (a) A roller moves within two conveyor belts, of which top belt moves at the speed of 8 m/s and bottom belt moves at 6 m/s. Determine the linear and angular velocity of the roller if the diameter of the roller is 55 cm. [2]
- Q3 (b) A 100N body is initially stationary on a 45 degree incline. The coefficient of dynamic friction between the block and incline is 0.5. What distance along the incline must the weight slide before it reaches a speed of 40 m/s? [3]
- Q4 (a) A bar AB 5 m long slides in the xy - plane. Point A touches the vertical plane and point B end touches the horizontal plane and makes an angle  $\theta = 60^\circ$  with the vertical. The velocity and acceleration of point A at any instant are 10 m/s and  $5 \text{ m/s}^2$  respectively in the downward direction. Determine velocity and acceleration of point B. [2]
- Q4 (b) A flywheel of 550 mm diameter is brought uniformly from rest up to a speed of 350 rpm in 20 seconds. Find the velocity and the acceleration of a point on its rim 3 seconds after starting from rest. [3]
- Q5 (a) Define angle of repose. [2]  
 Q5 (b) A body of weight 100 N rests on a rough horizontal surface  $\mu = 0.3$  and is acted upon by a force applied at an angle of 30 degree to the horizontal. What force is required to just cause the body to slide over the surface? [3]

# Mechanical Engineering Material Sample Question Paper

**David Chan**



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Dynamic Modeling and Simulation of Dynamic Behavior of Materials Quantitative Visualization of Dynamic Behavior of Materials Shock Blast Loading of Materials Interface and Structural Dynamics Material Response Biomedical Engineering and Environmental Engineering David Chan, 2015-05-06 This conference series is a forum for enhancing mutual understanding between Biomedical Engineering and Environmental Engineering field This proceeding provides contributions from many experts representing industry and academic establishments worldwide The researchers are from different countries and professional The conference brought **Dynamic Behavior of Materials, Volume 1** Vijay Chalivendra, Bo Song, Daniel Casem, 2025-08-07 Dynamic Behavior of Materials Volume 1 Proceedings of the 2012 Annual Conference on Experimental and Applied Mechanics represents one of seven volumes of technical papers presented at the Society for Experimental Mechanics SEM 12th International Congress Exposition on Experimental and Applied Mechanics held at Costa Mesa California June 11 14 2012 The full set of proceedings also includes volumes on Challenges in Mechanics of Time Dependent Materials and Processes in Conventional and Multifunctional Materials Imaging Methods for Novel Materials and Challenging Applications Experimental and Applied Mechanics 2nd International Symposium on the Mechanics of Biological Systems and Materials 13th International Symposium on MEMS and Nanotechnology and Composite Materials and the 1st International Symposium on Joining Technologies for Composites **Advances in Engineering Materials, Structures and Systems: Innovations, Mechanics and Applications** Alphose Zingoni, 2019-08-21 Advances in Engineering Materials Structures and Systems Innovations Mechanics and Applications comprises 411 papers that were presented at SEMC 2019 the Seventh International Conference on Structural Engineering Mechanics and Computation held in Cape Town South Africa from 2 to 4 September 2019 The subject matter reflects the broad scope of SEMC conferences and covers a wide variety of engineering materials both traditional and innovative and many types of structures The many topics featured in these Proceedings can be classified into six broad categories that deal with i the mechanics of materials and fluids elasticity plasticity flow through porous media fluid dynamics fracture fatigue damage delamination corrosion bond creep shrinkage etc ii the mechanics of structures and systems structural dynamics vibration seismic response soil structure interaction fluid structure interaction response to blast and impact response to fire structural stability buckling collapse behaviour iii the numerical modelling and experimental testing of materials and structures numerical methods simulation techniques multi scale modelling computational modelling laboratory testing field testing experimental measurements iv innovations and special structures nanostructures adaptive structures smart structures composite structures bio inspired structures shell structures membranes space structures lightweight structures long span structures tall buildings wind turbines etc v design in traditional engineering materials steel concrete steel concrete composite aluminium masonry timber glass vi the process of structural engineering conceptualisation planning analysis design optimization construction assembly manufacture testing maintenance monitoring assessment repair strengthening retrofitting decommissioning The SEMC 2019 Proceedings will be

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Inoue, 2013-10-22 Significant progress in the science and technology of the mechanical behaviour of materials has been made in recent years. The greatest strides forward have occurred in the field of advanced materials with high performance such as ceramics, composite materials and intermetallic compounds. The Sixth International Conference on Mechanical Behaviour of Materials (ICM 6) taking place in Kyoto, Japan, 29 July - 2 August 1991, addressed these issues. In commemorating the fortieth anniversary of the Japan Society of Materials Science, organised by the Foundation for Advancement of International Science and supported by the Science Council of Japan, the information provided in these proceedings reflects the international nature of the meeting. It provides a valuable account of recent developments and problems in the field of mechanical behaviour of materials.

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