

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]

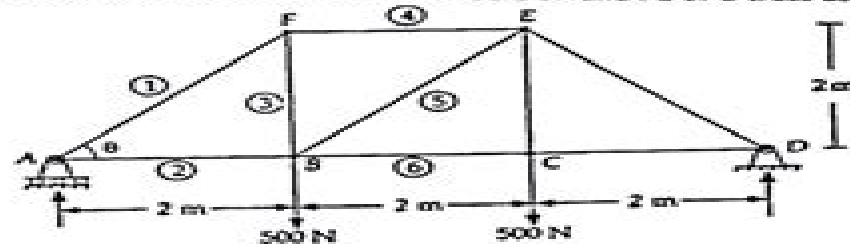


Fig. 1

- 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 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

**Riadh Elleuch, Basma Ben
Difallah, Ridha Mnif, Mouna
Baklouti, Abdessattar
Abdelkefi, Mohamed Kharrat**

Mechanical Engineering Material Sample Question Paper:

Introduction to Mechanical Engineering Sciences Rajesh Kumar R, 2020-08-01 Introduction to Mechanical Engineering Sciences addresses various fields such as Thermodynamics IC Engines Power plant engineering etc *Elements of Mechanical Engineering(GTU)* Sadhu Singh, 2010 The book strictly complies with the new syllabus of Gujarat Technological University Ahmedabad for B E First year of all branches of Engineering The subject matter is presented in a graded stepwise easy to follow style Each chapter includes Multiple Choice Questions Review Questions and Exercises for easy recapitulation

Material Science and Metallurgy Anup Goel, 2021-01-01 A material is that from which anything can be made It includes wide range of metals and non metals that are used to form finished product The knowledge of materials and their properties is of great significance for a design engineer Material science is the study of the structure properties relationship of engineering materials such as ferrous non ferrous materials polymers ceramics composites and some advanced materials Metallurgy is the study of metals related to their extraction from ore refining production of alloys along with their properties The study of material science and metallurgy links the science of metals to the industries Also this helps in completing demands from new applications and severe service requirements

Mechanical Engineering, Materials Science and Civil Engineering III Jeremy Zheng Li, 2014-12-31 Selected peer reviewed papers from the 2014 3rd International

Conference on Mechanical Engineering Materials Science and Civil Engineering ICMEMSCE 2014 October 25 26 2014 Phuket Thailand **Mechanical Engineering and Materials** Jinyang Xu, Krishna Murari Pandey, 2021-03-24 This book gathers the latest advances innovations and applications in the field of mechanical engineering as presented by leading international researchers and engineers at the 2020 International Conference on Mechanical Engineering and Materials ICMEM held in Beijing China on October 16 17 2020 ICMEM covers all aspects of mechanical engineering and material sciences such as computer aided design virtual design and design visualization intelligent design usability design automobile structure human machine interface design manufacturing engineering aerospace engineering automation and robotics micro machining MEMS NEMS composite materials biomaterials smart materials superconducting materials materials properties and applications materials manufacturing nanotechnology nano materials and nano composites etc The contributions which were selected by means of a rigorous international peer review process highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations

Advances in Mechanical Engineering, Materials and Mechanics II Riadh Elleuch, Basma Ben Difallah, Ridha Mnif, Mouna Baklouti, Abdessattar Abdelkefi, Mohamed Kharrat, 2025-05-12 This book reports on cutting edge research in the broad fields of mechanical engineering and mechanics It describes innovative applications and research findings in design and manufacturing applied and fluid mechanics dynamics and control thermal science and materials It also highlights several relevant advances in industrial applications All papers were carefully selected from contributions presented at the International Conference on Advances in Mechanical Engineering

and Mechanics ICAMEM 2024 held on June 28 30 2024 in Sousse Tunisia and organized by the Laboratory of Electromechanical Systems LASEM at the National School of Engineers of Sfax ENIS and the Tunisian Scientific Society TSS in collaboration with a great number of national and international research institutions and laboratories *SSC JE Mechanical Engineering (Paper 1) | 8 Full-length Mock Tests + 3 Previous Year Papers (2200+ Solved Questions)* EduGorilla Prep Experts, 2022-08-03 Best Selling Book for SSC JE Mechanical Engineering Paper 1 with objective type questions as per the latest syllabus given by the SSC Compare your performance with other students using Smart Answer Sheets in EduGorilla s SSC JE Mechanical Engineering Paper 1 Practice Kit SSC JE Mechanical Engineering Paper 1 Preparation Kit comes with 11 Tests 8 Full length Mock Tests 3 Previous Year Papers with the best quality content Increase your chances of selection by 14X SSC JE Mechanical Engineering Paper 1 Prep Kit comes with well structured and 100% detailed solutions for all the questions Clear exam with good grades using thoroughly Researched Content by experts Advances in Mechanical Engineering, Materials and Mechanics Mohamed Kharrat, Mounir Baccar, Fakhreddine Dammak, 2020-08-04 This book reports on cutting edge research in the broad fields of mechanical engineering and mechanics It describes innovative applications and research findings in applied and fluid mechanics design and manufacturing thermal science and materials A number of industrially relevant recent advances are also highlighted All papers were carefully selected from contributions presented at the International Conference on Advances in Mechanical Engineering and Mechanics ICAMEM2019 held on December 16 18 2019 in Hammamet Tunisia and organized by the Laboratory of Electromechanical Systems LASEM at the National School of Engineers of Sfax ENIS and the Tunisian Scientific Society TSS in collaboration with a number of higher education and research institutions in and outside Tunisia *Recent Trends in Materials and Mechanical Engineering Materials, Mechatronics and Automation* Qi Luo, 2011-05-03 Selected peer reviewed paper from 2011 International Conference on Recent Trends in Materials and Mechanical Engineering ICRTMME 2011 27 28 January 2011 China Shenzhen *Dynamic Behavior of Materials, Volume 1* Bo Song, Daniel Casem, Jamie Kimberley, 2025-08-07 Dynamic Behavior of Materials Volume 1 Proceedings of the 2014 Annual Conference on Experimental and Applied Mechanics the first volume of eight from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of Experimental Mechanics including papers on General Dynamic Materials Response Novel Dynamic Testing Techniques Dynamic Fracture and Failure Dynamic Behavior of Geo materials Dynamic Behavior of Composites and Multifunctional materials Dynamic Behavior of Low Impedance materials 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

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