

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]

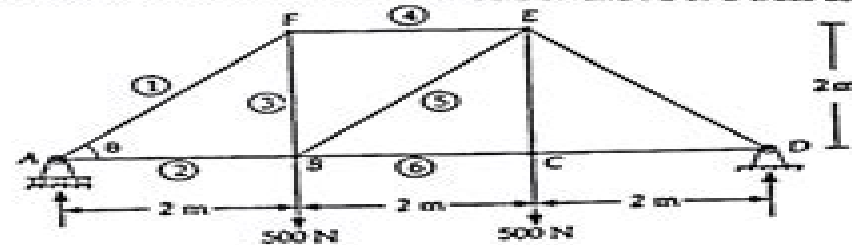


Fig. 1

- 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

**Rachel S Tattersall**



## **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

*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 *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

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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

**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

**Engineering Materials, Structures, Systems and Methods for a More Sustainable Future** Alphose Zingoni,2025-08-07 Engineering Materials Structures Systems and Methods for a More Sustainable Future comprises 275 papers that were presented at SEMC 2025 the Ninth International Conference on Structural Engineering Mechanics and Computation This event held in Cape Town South Africa from 1 to 3 September 2025 was attended by around 300 participants from 42 countries worldwide The Proceedings are divided into 15 sections The various topics may be grouped into five broad categories covering i the mechanics of materials solids and structures ii numerical modelling computational simulations and experimental testing iii analysis design and construction in the traditional engineering materials iv innovative engineering materials structures and methods v maintenance long term performance life cycle considerations and sustainable construction Engineering Materials Structures Systems and Methods for a More Sustainable Future will be of interest to civil structural mechanical marine and aerospace engineers as well as planners and architects Two versions of the papers are available full papers of length six pages are included in the e book while short papers of length two pages intended to be concise but self contained summaries of the full papers are in the printed book

**Experimental Analysis of Nano and Engineering Materials and Structures** E.E. Gdoutos,2007-12-06 This volume contains two page abstracts of the 482 papers presented at the latest conference on the subject in Alexandroupolis Greece The accompanying CD contains the full length papers The abstracts of the fifteen plenary lectures are included at the

beginning of the book The remaining 467 abstracts are arranged in 23 tracks and 28 special symposia sessions with 225 and 242 abstracts respectively The papers of the tracks have been contributed from open call while the papers of the symposia sessions have been solicited by the respective organizers

**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

**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

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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 of interest to civil structural mechanical marine and aerospace engineers Researchers developers practitioners and academics in these disciplines will find them useful Two versions of the papers are available Short versions intended to be concise but self contained summaries of the full papers are in this printed book The full versions of the papers are in the e book

**Mechanical Testing for Deformation Model Development** R. W. Rohde,1982      **Computerization and Networking of Materials Databases** Charles P. Sturrock,E. F. Begley,1995      IUTAM Symposium on Synthesis in Bio Solid Mechanics Pauli Pedersen,Martin P. Bendsøe,2006-04-11 This book contains the edited version of invited lectures presented at the IUTAM Symposium Synthesis in Bio Solid Mechanics held at Hotel Frederiksdal Virum Copenhagen Denmark May 24 to May 27 1998 The symposium was attended by 48 scientist from 14 countries Biomechanics has been a very active research area in the last 25 years and covers a very broad class of problems The present symposium concentrated on the solid mechanics main of biomechanics where important problems of synthesis presently are an active and challenging part Characteristics of biomechanical materials are not only the inhomogeneity and anisotropy but also the capability to change in relation to actual use These living materials call for new methods of analysis and also new methods for synthesis By the synthesis in this context is meant design of implants or artificial control of material growth Bone mechanics is closely related to recent work on analysis and design of microstructural anisotropic materials Also recent work in shape design can to some extent be useful in the more complicated problems of biomechanics Here interface problems play an essential role The symposium brought together scientists from mechanics mathematics and medicine

**Proceedings of Mechanical Engineering Research Day 2018** Mohd Fadzli Bin Abdollah,2018-05-16 This e book is a compilation of papers presented at the 5th Mechanical Engineering Research Day MERD 18 Kampus Teknologi UTeM Melaka Malaysia on 03 May 2018      Mechanical Behaviour of Materials - VI M. Jono,T.

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

**Proceedings of China SAE Congress 2018: Selected Papers** China Society of Automotive Engineers (China SAE),2019-10-25 This Proceedings volume gathers outstanding papers submitted to Proceedings of China SAE Congress 2018 Selected Papers the majority of which are from China the largest car maker as well as most dynamic car market in the world The book covers a wide range of automotive topics presenting the latest technical advances and approaches to help technicians solve the practical problems that most affect their daily work It is intended for researchers engineers and postgraduate students in the fields of automotive engineering and related areas

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