

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

SEMESTER : I
SESSION : MO/18

TIME: 3.00 HOURS

SUBJECT: ME101 BASIC OF MECHANICAL ENGINEERING

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
2. Attempt all questions.
3. The missing data, if any, may be assumed suitably.
4. Before attempting the question paper, be sure that you have got the correct question paper.
5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.

- Q.1(a) A steel bar 35 mm x 35 mm in section and 100 mm in length is acted upon by a tensile load of 180 kN along its longitudinal axis and 400 kN and 300 kN along the axes of the lateral surfaces. Determine [5]
(i) change in the dimensions of the bar
(ii) change in the volume
(iii) longitudinal axial load acting alone to produce the same longitudinal strain as in (i).
 $E = 205 \text{ GPa}$, Poisson's ratio = 0.3

- Q.1(b) Detect the forces in the member BC and CD of the truss given figure 1. [5]

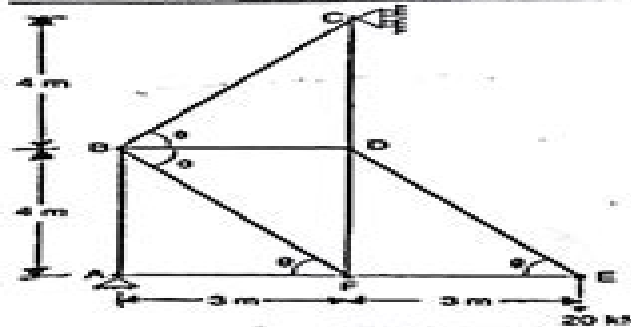


Figure 1

- Q.2(a) A high speed car is moving with a speed of 100 m/s. The resistance to motion of the vehicle is mainly due to aerodynamics drag, which for this speed can be approximated as $0.2V^2 \text{ N}$, with V is in m/s. If the vehicle has a mass of 4000 kg, estimate what distance will it move before its speed reduced to 70 m/s? [5]
- Q.2(b) The position vector of two bodies A and B are defined in fixed XY frame by $r_A = -4.5t^2i - 1.5t^2j$, $r_B = -6t^2i + 2.25t^2j$, where r_A and r_B in meters and t is in sec. Determine V_{BA} and a_{BA} after 3 seconds in terms of i and j . [5]
- Q.3(a) Formulate an expression for the centrifugal tension in a flat belt drive in terms of mass of the belt per unit length 'm' and velocity of the belt 'V'. [5]
- Q.3(b) Detect the natural frequency of the system shown in figure 2 below. $k = 2 \times 10^5 \text{ N/m}$, $m = 20 \text{ kg}$. [5]



Figure 2

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Rachel Sandford



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Courses is a cutting edge research publication that examines current theoretical frameworks research projects and empirical studies related to the design implementation and evaluation of early warning systems and targeted interventions and discusses their implications for policy and practice Moreover this book will review common challenges of early warning systems and dashboard design and will explore design principles and data visualization tools to make data more understandable and therefore more actionable Highlighting a range of topics such as curriculum design game based learning and learning support it is ideal for academicians policymakers administrators researchers education professionals instructional designers data analysts and students

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