BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

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

3.00 HOURS

SUBJECT: ME101 BASIC OF MECHANICAL ENGINEERING

SEMESTER : I SESSION : MO/18

FULL MARKS: 50

INSTRUCTIONS:

TUME:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.

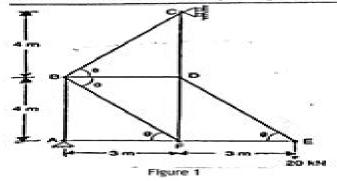
2. Attempt all questions.

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 [5] kN along its longitudinal axis and 400 kN and 300 kN along the axes of the lateral surfaces. Determine
 (i) change in the dimensions of the bar
 (ii) change in the volume
 (iii) longitudinal axial load acting along to produce the same longitudinal strain as in (i).
- E = 205 GPa, Poisson's ratio = 0.3
 Q.1(b) Detect the forces in the member BC and CD of the truss given 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 [5] mainly due to aerodynamics drag, which for this speed can be approximated as $0.2V^2$ 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?
- Q.2(b) The position vector of two bodies A and B are defined in fixed XY frame by [5] $\mathbf{r}_A = -4.5 \, t^3 \mathbf{i} 1.5 \, t^3 \mathbf{j}_* \mathbf{r}_B = -6 \, t^2 \mathbf{i} + 2.25 \, t^3 \mathbf{j}_*$, where \mathbf{r}_A and \mathbf{r}_B in meters and t is in sec. Determine \mathbf{V}_{BA} and \mathbf{a}_{BA} after 3 seconds in terms of 1 and j.
- Q.3(a) Formulate an expression for the centrifugal tension in a flat belt drive in terms of mass of the belt [5] per unit length 'm' and velocity of the belt 'V'.
- Q.3(b) Detect the natural frequency of the system shown in figure 2 below, k = 2 x 10⁵ N/m, m = 20 kg. [5]



Figure 2

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<u>Diploma First Sem Mechanical Engineering Question</u> <u>Paper</u>

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