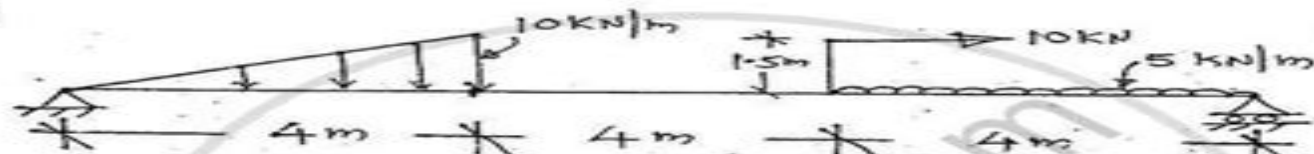


28-5-2011

- N.B. : (1) Question No. 1 is compulsory.
(2) Attempt any four questions from remaining six questions.
(3) Figures to the right indicate full marks.
(4) Assumptions made should be clearly stated.

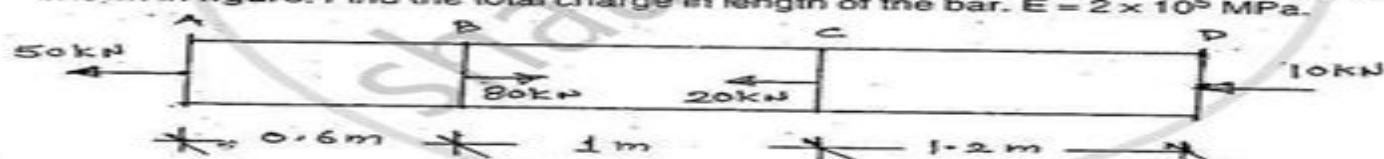
1. (a) Derive the relation between shear force, Bending moment and rate of loading. 4
(b) Write any four assumptions in the theory of simple bending and derive the flexure equation for straight beams. 6
(c) What is core of the section ? Determine core of rectangular hollow section, outer dimensions $B \times D$ and inner dimensions $b \times d$. 6
(d) What are principal planes and principal stresses ? Explain the concept of equivalent torsional and bending moment. 4

2. (a) 14

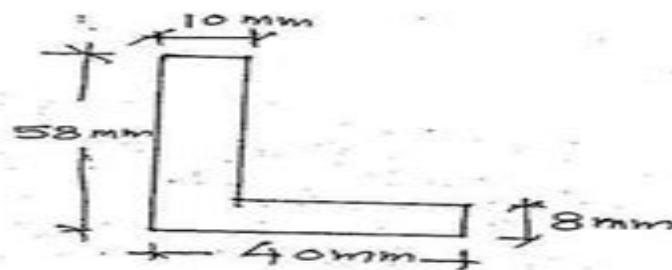


Draw shear force, bending moment and axial force diagrams for the beam shown in figure.

- (b) A close coiled helical spring is to carry a load of 120 N and the mean coil diameter is to be 8 times the wire diameter. Calculate these diameters if the maximum shear stress is 100 N/mm^2 . 6
3. (a) A steel bar having a cross-sectional area of 1000 mm^2 is subjected to axial forces as shown in figure. Find the total change in length of the bar. $E = 2 \times 10^5 \text{ MPa}$. 8



- (b) A steel rod of 16 mm dia. and 5 m long is connected to two grips one at each end at a temperature of 120°C . Find the pull exerted when the temperature falls to 40°C (i) if the ends do not yield (ii) if the ends yields by 1.0 mm. Take $E = 2 \times 10^5 \text{ MPa}$ and $\alpha = 1.2 \times 10^{-5} \text{ per } ^\circ\text{C}$. 6
- (c) Determine I_{xx} , I_{yy} , I_{xy} , I_{uu} and I_{vv} for the section shown in the figure.



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and fracture mechanics Appended is material on the properties of areas matrices and stress concentrations Each topic is illustrated by worked examples and supported by numerous exercises drawn from the author s teaching experience and professional institution examinations CEI This edition includes new material and an extended exercise section for each of the fifteen chapters as well as three appendices The broad text ensures its suitability for undergraduate and postgraduate courses in which the mechanics of solids and structures form a part including mechanical aeronautical civil design and materials engineering **The Surveyor** ,1900 □□□□ □□ □□□□□□□□□□ **(2023-24 UKPSC AE/JE)** YCT Expert Team, 2023
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