

Automobile/Mechanical

Subject : Strength of Material

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice Questions. All questions are compulsory (10x1=10)

(Course Outcome/CO)

- Q.1 The property of a material by virtue of which a body returns to its original, shape after removal of the load is called:- (CO-1)
a) Elasticity b) Ductility
c) Plasticity d) Malleability
- Q.2 A steel bar of 5 mm is heated from 15° C to 40° C and it is free to expand. The bar Will induce:- (CO-1)
a) no stress b) shear stress
c) tensile stress d) compressive stress
- Q.3 The unit of second moment of area is. (CO-4)
a) m⁴ b) m³
c) m² d) m⁵
- Q.4 When shear force at a point is zero, then bending moment is _____ at that point (CO-5)
a) ZERO b) Maximum
c) Minimum d) Infinity
- Q.5 How do U.D.L. be represented in SFD? (CO-5)
a) Rectangles b) Curved lines
c) Inclined lines d) NONE

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- Q.17 Define Bending Stress (CO-6)
Q.18 Define Equivalent length of Column (CO-8)
Q.19 Define Torsional rigidity (CO-7)
Q.20 Define Spring (CO-9)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. 12x5=60

- Q.21 Draw labelled stress-strain diagram for Mild steel. (CO-1)
- Q.22 A rod of 2m long 30 mm diameter is subjected to an axial pull of 30kN. If the Young's modulus of the material of the rod is 2×10^5 N/mm², determine elongation of the rod? (CO-1)
- Q.23 Derive an expression for the strain energy induced in a body due to gradually applied load. (CO-3)
- Q.24 State theorem of Parallel axis and perpendicular axis. (CO-4)
- Q.25 Define M.O.I. Write the formula for M.O.I. of a rectangle about horizontal & vertical axis passing through the centroid? (CO-4)
- Q.26 Define Bending moment and write its sign conventions with suitable diagrams. (CO-5)
- Q.27 Name the various types of beams. Explain any two with diagram. (CO-5)
- Q.28 Write any five assumptions made in the theory of simple bending. (CO-6)

- Q.6 Which of the following is the correct torsion equation (CO-6)
a) $M/I = \tau/r = E/R$ b) $T/rp = R/G\theta$
c) $M/R = T/rp = G\theta/l$ d) $T/r = \tau/rp = R/G\theta$

- Q.7 The shear stress is _____ at the axis of the shaft. (CO-6)
a) Minimum b) Maximum
c) Zero d) Uniform

- Q.8 The neutral axis of the cross-section of a beam is that axis at which the bending stress is:- (CO-6)
a) Zero b) minimum
c) maximum d) infinity

- Q.9 In order to know whether a column is long or short, we must know its (CO-8)
a) Ultimate shear stress of the column
b) Factor of safety
c) Torque resisting capacity
d) Slenderness ratio

- Q.10 When a closely- coiled helical spring of mean diameter (D) is subjected to an axial load (W), the stiffness of the spring is given by:- (CO-9)
a) Gd^3/D^3n b) $Gd^3/2D^3n$
c) $Gd^3/4D^3n$ d) $Gd^3/8D^3n$

SECTION-B

Note: Objective type questions. All questions are compulsory. 10x1=10

- Q.11 Define Hook's Law for elasticity (CO-1)
Q.12 Define Hoop Stress (CO-2)
Q.13 Define Proof Resilience (CO-3)
Q.14 Define Radius of gyration (CO-4)
Q.15 Define Simply supported beam (CO-5)
Q.16 Define U.D.L. (CO-5)

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- Q.32 State any five assumptions made for theory of pure torsion. (CO-7)
- Q.33 A gas cylinder of internal diameter 80 mm is 5mm thick. If the circumferential stress in the material is not to exceed 30 MPa, find the maximum pressure which can be allowed in the cylinder. (CO-2)
- Q.34 Find the maximum shear stress induced in a solid circular shaft of diameter 150 mm when the shaft transmits a power of 180 kW at 180 r.p.m (CO-7)
- Q.35 Define springs. Write any four functions of springs. (CO-9)

SECTION-D

Note: Long answer type questions. Attempt any two out of three questions. 2x10=10

- Q.36 A bar of 300 mm long is 60 mm x 60 mm in section for 120 mm of its length, 30 diameter for 80 mm of length and 50 mm diameter for the remaining length. If the tensile force of 70kN is applied to the bar, calculate the stresses induced in the different sections and total elongation of the bar. Take $E = 2 \times 10^5$ N/mm² (CO-1)
- Q.37 A simply supported beam of span 7m carries a u.d.l. of 2 kN/m for a length of 4 m starting from a point at a distance of 2 m from the left hand support. Draw S.F.D. and B.M.D for the given beam. (CO-5)

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RD Boyd



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