Mchanical Engineering Interview Quiz Questions and Answers Pdf Free Download

1. The reaction in the case of hinged support

a. acts perpendicular to beam

b. perpendicular to surface of hinge

c, along the surface of beam

d. opposite to the direction of load

e. in any direction depending upon the loads

Ans: E

2. Strength of a beam is proportional to the square of its

a. length

b. depth

c. width

d. moment of inertia

Ans: B

3. The point of inflexion or contra flexure is the point where

a. bending moment diagram changes sign

b. stress is minimum

c. deflection changes sign

d. shear force and bending moment cross each other

e. bending moment is maximum

Ans: A

4. The steel bars in reinforced cement beam are located at

a. top

b. bottom

c. centre

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d. neutral axis

e. uniformly distributed

Ans: B

5 . The rate of change of shear force at any section is equal to

a. bending moment

b. loading

c. deflection

d. intensity of loading

e. slope

Ans: D

6. Point of contraflexure occurs in

a. simply supported beam

b. beams carrying load varying from zero at one end to maximum at other

c. cantilevers

d. overhanging beams

e. any type of beam

Ans: D

7. Hoop stress in thin walled cylinder is

a. compressive stress

b. radial stress

c. circumferential tensile stress

d. longitudinal stress

e. shear stress

Ans: C

8. The stresses at any point in the thick cylinder are

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a. tensile

b. compressive

c. shear

d. compound

e. principal

Ans: e

9. The radial pressure and hoop tension in case of thick cylinder is

a. maximum at inner surface and decreases towards outer surface

b. minimum at inner surface and increases towards outer surface

c. minimum at inner and outré surfaces and maximum in middle

d. maximum at inner and outer surfaces and minimum in middle

Ans: a

10. Auto frettage is the method of

a. calculating stresses in thick cylinders

b. relieving thick cylinders

c. prestressing thick cylinders

d. increasing life of thick cylinders

e. joining thick cylinders

Ans:c

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