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1. The heaviest I-section for same depth is a) ISMB b) ISLB c) ISHB

d) ISWB Ans: c

2. Bending compressive and tensile stresses respectively are calculated based on

a) net area and gross areab) gross area and net areac) net area in both casesd) gross area in both casesAns: b

3. If the thickness of thinnest outside plate is 10 mm, then the maximum pitch of rivets in tension will be taken as

a) 120 mm b) 160 mm c) 200 mm d) 300 mm Ans: b

4. In a gusseted base, when the end of the column is machined for complete bearing on the base plate, then the axial load is assumed to be transferred to base plate

a) fully by direct bearing
b) fully through fastenings
c) 50% by direct bearing and 50% through fastenings
d) 75% by direct bearing and 25% through fastenings
Ans: c

5. When the axis of load lies in the plane of rivet group, then the rivets are subjected to

a) only shear stressesb) only tensile stressesc) both (a) and (b)d) none of the aboveAns: a

6. When the axis of load lies in the plane of rivet group, then the most heavily loaded rivet will be the one which

a) is at the maximum distance from CG of the rivet group

b) is at the minimum distance from CG of the rivet group

c) gives the maximum angle between the two forces Fa and Fm

d) gives the minimum angle between the two forces Fa and Fm

where, Fa is the load shared by each rivet due to axial load and Fm is the shearing load due to moment in any rivet. Ans: d

7. Which of the following types of riveted joint is free from bending stresses ?

a) lap jointb) butt joint with single cover platec) butt joint with double cover platesd) none of the aboveAns: c

8. The difference between gross diameter and nominal diameter for the rivets up to 25 mm diameter is

a) 1.0 mm b) 1.5 mm c) 2.0 mm d) 2.5 mm Ans: b

9. As compared to field rivets, the shop rivets are

a) stronger b) weaker c) equally strong d) any of the above Ans: a

10. If the thickness of plate to be connected by a rivet is 16 mm, then suitable size of rivet as per Unwin's formula will be

a) 16 mm b) 20 mm c) 24 mm d) 27 mm Ans: c