

- (B) $\tau A_m t$
- (C) $2\tau A_m t$
- (D) $4\tau A_m t$

Answer: (C)

Q.No. 50 According to IS 456 - 2000, which one of the following statements about the depth of neutral axis $X_{u,bal}$ for a balanced reinforced concrete section is correct?

- (A) $X_{u,bal}$ depends on the grade of concrete only.
- (B) $X_{u,bal}$ depends on the grade of steel only.
- (C) $X_{u,bal}$ depends on both the grade of concrete and grade of steel.
- (D) $X_{u,bal}$ does not depend on the grade of concrete and grade of steel.

Answer: (B)

Q.No. 51 All the members of the planar truss (see figure), have the same properties in terms of area of cross-



section (A) and modulus of elasticity (E). For the loads shown on the truss, the statement that correctly represents the nature of forces in the members of the truss is:

- (A) There are 3 members in tension, and 2 members in compression
- (B) There are 2 members in tension, 2 members in compression, and 1 zero-force member
- (C) There are 2 members in tension, 1 member in compression, and 2 zero-force members
- (D) There are 2 members in tension, and 3 zero-force members

Answer: (D)

Q.No. 52 In a soil investigation work at a site, Standard Penetration Test (SPY) was conducted at every 1.5 m interval up to 30 m depth. At 3 m depth, the observed number of hammer blows for three successive 150 mm penetrations were 8, 6 and 9, respectively. The SPT N-value at 3 m depth, is

- (A) 23
- (B) 17
- (C) 15
- (D) 14

Answer: (C)

Q.No. 53 A body floating in a liquid is in a stable state of equilibrium if its

- (A) metacentre lies above its centre of gravity

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