

Q. 1 – Q. 25 carry one mark each.

- Q.1 The estimate of  $\int_0^1 \frac{dx}{x}$  obtained using Simpson's rule with three-point function evaluation exceeds the exact value by  
 (A) 0.235 (B) 0.068 (C) 0.024 (D) 0.012
- Q.2 The annual precipitation data of a city is normally distributed with mean and standard deviation as 1000 mm and 200 mm, respectively. The probability that the annual precipitation will be more than 1200 mm is  
 (A) < 50% (B) 50% (C) 75% (D) 100%
- Q.3 The infinite series  $1 + x + \frac{x^2}{2!} + \frac{x^3}{3!} + \frac{x^4}{4!} + \dots$  corresponds to  
 (A)  $\sec x$  (B)  $e^x$  (C)  $\cos x$  (D)  $1 + \sin^2 x$
- Q.4 The Poisson's ratio is defined as  
 (A)  $\left| \frac{\text{axial stress}}{\text{lateral stress}} \right|$  (B)  $\left| \frac{\text{lateral strain}}{\text{axial strain}} \right|$  (C)  $\left| \frac{\text{lateral stress}}{\text{axial stress}} \right|$  (D)  $\left| \frac{\text{axial strain}}{\text{lateral strain}} \right|$
- Q.5 The following statements are related to bending of beams:

- I The slope of the deflection curve is equal to the rotation of the beam.  
 II The slope of the deflection curve is equal to the deflection.  
 III The slope of the curvature is equal to the flexural relation.  
 IV The second derivative of the deflection is equal to the curvature.

The only FALSE statement is

- (A) I (B) II (C) III (D) IV
- Q.6 If a small concrete cube is submerged deep in still water in such a way that the pressure exerted on all faces of the cube is  $p$ , then the maximum shear stress developed inside the cube is  
 (A) 0 (B)  $\frac{p}{2}$  (C)  $p$  (D)  $2p$
- Q.7 As per IS 456:2000, in the Limit State Design of a flexural member, the strain in reinforcing bars under tension at ultimate state should not be less than  
 (A)  $\frac{f_c}{E_s}$  (B)  $\frac{f_c}{E_s} + 0.002$  (C)  $\frac{f_c}{1.15E_s}$  (D)  $\frac{f_c}{1.15E_s} + 0.002$
- Q.8 Which one of the following is categorised as a long-term loss of prestress in a prestressed concrete member?  
 (A) Loss due to elastic shortening (B) Loss due to friction  
 (C) Loss due to relaxation of strands (D) Loss due to anchorage slip
- Q.9 In a steel plate with bolted connections, the rupture of the net section is a mode of failure under  
 (A) tension (B) compression (C) flexure (D) shear

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web 2 locate ducts against wall or maximum of 51 mm away from wall 3 each wall anchor shall satisfy the following criteria unless other analysis is made a tensile load  $3.8 \times$  duct weight safety factor 4 b shear load  $1.2 \times$  duct weight safety factor 4 figure 4 8m support from wall hvac duct construction standards metal and flexible

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