

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 cross-section.
 II The slope of the deflection curve is equal to the rotation of the cross-section.
 III The slope of the curvature is equal to the flexural rotation.
 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 we will revisit this today and go on to see that if we use a special kind of thermochemical reaction called the standard enthalpy of formation we can calculate enthalpies of reactions without having to manipulate a series of individual thermochemical equations for each step

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web we can express the first law in many ways one of the more useful expressions is that the change in internal energy e of a system in any process is equal to the heat q added to the system plus the work w done on the system by its surroundings e

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