

Part - A : GENERAL ENGINEERING (Civil and Structural)

140. The percentage of the fine aggregate of fineness modulus 2.6 to be combined with coarse aggregate of fineness modulus 6.8 for obtaining the aggregates of fineness modulus 5.4, is :
 (A) 60% (B) 30% (C) 40% ☒ (D) 50%

141. Administrative head of public works department who is directly responsible to Government is :
 (A) Assistant Engineer
 (B) Executive Engineer
 (C) Superintending Engineer
☒ (D) Chief Engineer

142. The load factor applied to wind and seismic loads in design of steel structures is :
 (A) 2.2 ☒ (B) 1.3 (C) 1.5 (D) 1.8

143. The minimum diameter of longitudinal reinforcement in RCC column should not be less than :
 (A) 16 mm (B) 6 mm
 (C) 8 mm ☒ (D) 12 mm

144. Generally the ratio of different ingredients (Cement Sand and aggregate) in concrete mix of grade M20 is :
 (A) 1 : 2 : 4 ☒ (B) 1 : 1.5 : 3
 (C) 1 : 3 : 6 (D) 1 : 1 : 2

145. Fineness test of cement gives us an estimate of :
 (A) workability of concrete
 (B) heat of hydration
☒ (C) rate of hydration
 (D) durability of concrete

146. The type of surveying which requires least office work is (least calculation) :
 (A) Theodolite surveying
 (B) Tacheometry
 (C) Trigonometrical levelling
☒ (D) Plane table surveying

147. Admixtures which cause early setting and hardening of concrete are called :
 (A) Air entraining agents
 (B) Workability admixture
☒ (C) Accelerators
 (D) Retarders

148. Basalt stone is by nature :
 (A) meta morphic (B) volcanic
☒ (C) plutonic (D) sedimentary

149. In open channels, maximum velocity occurs :
☒ (A) just below the free surface
 (B) at the surface
 (C) near the channel bottom
 (D) in the mid-depth of flow



For the cantilever beam shown in Fig, the value of shear Force at Fixed end is :

- (A) 100 kN ☒ (B) 70 kN
 (C) 80 kN (D) 90 kN
151. In a simply supported beam of span, L subjected to Uniformly Distributed Load (UDL) of intensity W kN/m over it's entire length the maximum bending is given by the expression :

☒ (A) $\frac{WL^2}{8}$ (B) $\frac{WL}{8}$
 (C) $\frac{WL^2}{2}$ (D) WL

152. The relationship between void ratio ' e ' and porosity ' n ' is :

(A) $n = \frac{1 + e}{1 - e}$ ☒ (B) $e = n(1 + e)$
 (C) $n = \frac{e}{1 - e}$ (D) $e = \frac{1 + n}{1 - e}$

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