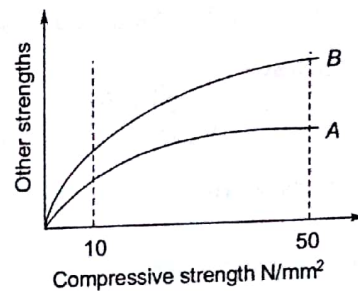


- Q.18 'Dowel' is a small
 (a) timber piece (b) mild steel piece
 (c) metallic piece (d) wrought iron piece
- Q.19 The commonly used lime in white washing is
 (a) quick lime (b) fat lime
 (c) lean lime (d) hydraulic lime
- Q.20 Shrinkage of cement concrete may be reduced by
 (a) proper curing
 (b) giving minimum water
 (c) adding more aggregate
 (d) adding m.s. bar
- Q.21 The example of hydrophobic aggregate is
 (a) silica (b) bitumen
 (c) bentonite (d) lime stone
- Q.22 The product of curing period of concrete and the curing temperature is called
 (a) maturity of concrete
 (b) immaturity of concrete
 (c) curing constant
 (d) concrete index
- Q.23 An addition of lime to cement concrete
 (a) is required for manufacture of cement
 (b) increases workability
 (c) increases durability
 (d) all of the above
- Q.24 The affinity of wood for moisture causes
 (a) warping (b) shrinking
 (c) swelling (d) cracking
- Q.25 In timber, dry rot is caused due to
 (a) attack of fungi
 (b) alternate wet and dry conditions
 (c) insufficient circulation of air
 (d) prolonged submergence
- Q.26 The hardness of bitumen is determined from
 (a) Penetrometer (b) Shore test
 (c) Barcol meter (d) Mho's test
- Q.27 Glazing is used to make earthenware
 (a) soft (b) impervious
 (c) hard (d) porous
- Q.28 The concrete hardness with
 (a) increase in time
 (b) no time factor involved
 (c) more aggregate content
 (d) all of the above

- Q.29 A good concrete mass should have
 (a) minimum voids (b) optimum void
 (c) 5% void (d) maximum void

- Q.30 Concrete shrinking is more pronounced in
 (a) rich mix (b) lean mix
 (c) very lean mix (d) normal mix

- Q.31 Figure shows relation between compressive strength and other strengths of concrete. The curve marked A shows



- (a) compressive strength
 (b) tensile strength
 (c) torsional strength
 (d) fatigue strength
- Q.32 The 'leaching action' in concrete is the example of
 (a) crystallization (b) chemical reaction
 (c) decomposition (d) creeping
- Q.33 The shrinkage in concrete is directly proportional to
 (a) water content at the time of mixing
 (b) sand content
 (c) coarse aggregate
 (d) aggregate to cement ratio
- Q.34 C.R.R.I. charts are used to obtain a relationship between strength of concrete and
 (a) water cement ratio
 (b) workability
 (c) grading of aggregate
 (d) fineness modulus
- Q.35 Percentage of dicalcium silicate in cement is
 (a) about 30 (b) about 90
 (c) about 50 (d) about 70
- Q.36 The major constituents of portland cement are
 (a) lime and calcium
 (b) lime and silica
 (c) silica and calcium
 (d) potassium and silica

- Q.37** What is the approximate share of lime in cement?
 (a) 70% (b) 20%
 (c) 5% (d) 3%
- Q.38** Which cement is expected to have the highest compressive strength after 72 hours?
 (a) Quick setting cement
 (b) Air-entrained cement
 (c) High alumina cement
 (d) Portland pozzolana cement
- Q.39** The shrinking of concrete will be least when the aggregate is of
 (a) quartz (b) granite
 (c) gravel (d) all of the above
- Q.40** The name 'herculite' stands for aggregate such as
 (a) expanded shale (b) vermiculite
 (c) normal weight (d) processed
- Q.41** 'Foamed slag' is a suitable aggregate used to make
 (a) expandable concrete
 (b) light weight concrete
 (c) cheap quality concrete
 (d) unwettable concrete
- Q.42** Calcium sulphoaluminate forms due to reaction of hydrated tricalcium aluminate with
 (a) gypsum (b) water
 (c) lime (d) all of the above
- Q.43** The tributyl phosphate used as an admixture serves the purpose of
 (a) set-controlling (b) water-reducing
 (c) air-detraining (d) grouting
- Q.44** The process involved in producing light weight aggregate is called
 (a) bloating (b) fillering
 (c) fullering (d) chaulking
- Q.45** The wire-mesh used in ferro-cement is of
 (a) dead mild steel (b) aluminium wire
 (c) galvanized iron (d) glass fibres
- Q.46** Which of the following ingredient is used for making light weight concrete?
 (a) sand (b) lime
- Q.47** The term 'slump' is known as
 (a) vertical settlement
 (b) vertical shrinkage
 (c) horizontal settlement
 (d) horizontal shrinkage
- Q.48** The joints in concrete used in road slab are filled by
 (a) shear key (b) bitumen
 (c) dowel bar (d) cement
- Q.49** When deep foundation work under water is carried out, the concrete is worked with the method
 (a) shutter (b) tremie
 (c) sonar (d) ultramarine
- Q.50** The process of fast-reaction of C_3A with water resulting in immediate stiffening, is called
 (a) flash set (b) flocculation
 (c) flocs (d) set
- Q.51** According to Himsworkth, when coefficient of variation is less than 10% the test results are
 (a) poor (b) very good
 (c) rejectable (d) just acceptable
- Q.52** Width of the concrete crack may be measured by
 (a) comparator (b) brittle lacquer
 (c) Moivre fringe (d) all of the above
- Q.53** Pick up the correct statement from the following
 (a) Insufficient quantity of water makes concrete mix harsh
 (b) Excess quantity of water makes the concrete segregated
 (c) Excess quantity of water causes the concrete to shrink
 (d) All of the above
- Q.54** Decrease in stress at a constant strain in a material is known as
 (a) anelasticity (b) relaxation
 (c) creep (d) rubber action
- Q.55** A broken concrete beam may be repaired by
 (a) providing additional reinforcement at the bottom
 (b) providing new stirrups
 (c) providing new connectors

Answers Engineering Materials and Construction Technology

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|----------|----------|----------|------------|----------|----------|------------|----------|
| 1. (a) | 2. (b) | 3. (a) | 4. (a) | 5. (c) | 6. (c) | 7. (d) | 8. (b) |
| 9. (c) | 10. (b) | 11. (c) | 12. (c) | 13. (c) | 14. (a) | 15. (b) | 16. (a) |
| 17. (b) | 18. (a) | 19. (d) | 20. (a) | 21. (d) | 22. (a) | 23. (b) | 24. (c) |
| 25. (c) | 26. (a) | 27. (b) | 28. (a) | 29. (a) | 30. (a) | 31. (b) | 32. (c) |
| 33. (a) | 34. (a) | 35. (d) | 36. (b) | 37. (c) | 38. (c) | 39. (c) | 40. (a) |
| 41. (b) | 42. (a) | 43. (c) | 44. (a) | 45. (c) | 46. (a) | 47. (a) | 48. (b) |
| 49. (b) | 50. (a) | 51. (b) | 52. (d) | 53. (d) | 54. (b) | 55. (d) | 56. (d) |
| 57. (a) | 58. (a) | 59. (c) | 60. (c) | 61. (a) | 62. (b) | 63. (b) | 64. (b) |
| 65. (b) | 66. (c) | 67. (b) | 68. (c) | 69. (b) | 70. (d) | 71. (a) | 72. (c) |
| 73. (c) | 74. (b) | 75. (d) | 76. (a, c) | 77. (b) | 78. (a) | 79. (c) | 80. (c) |
| 81. (d) | 82. (c) | 83. (c) | 84. (b) | 85. (c) | 86. (b) | 87. (c) | 88. (d) |
| 89. (b) | 90. (a) | 91. (b) | 92. (d) | 93. (b) | 94. (d) | 95. (a, b) | 96. (d) |
| 97. (c) | 98. (c) | 99. (a) | 100. (d) | 101. (a) | 102. (d) | 103. (d) | 104. (c) |
| 105. (a) | 106. (a) | 107. (d) | 108. (d) | 109. (d) | 110. (b) | 111. (a) | 112. (b) |
| 113. (d) | 114. (d) | 115. (d) | 116. (d) | 117. (d) | 118. (a) | 119. (a) | 120. (c) |
| 121. (c) | 122. (b) | 123. (c) | 124. (b) | 125. (d) | 126. (a) | 127. (c) | 128. (b) |
| 129. (c) | 130. (d) | 131. (c) | 132. (a) | 133. (c) | 134. (c) | 135. (a) | 136. (a) |
| 137. (c) | 138. (a) | 139. (b) | 140. (c) | 141. (b) | 142. (b) | 143. (d) | 144. (b) |
| 145. (b) | 146. (c) | 147. (b) | 148. (a) | 149. (b) | 150. (a) | 151. (d) | 152. (a) |
| 153. (c) | 154. (b) | 155. (d) | 156. (b) | 157. (d) | 158. (b) | 159. (d) | 160. (d) |
| 161. (b) | 162. (a) | 163. (c) | 164. (d) | 165. (b) | 166. (d) | 167. (b) | 168. (c) |
| 169. (c) | 170. (d) | 171. (d) | 172. (c) | 173. (a) | 174. (d) | 175. (a) | 176. (a) |
| 177. (d) | 178. (d) | 179. (c) | 180. (b) | 181. (a) | 182. (a) | 183. (c) | 184. (a) |
| 185. (c) | 186. (a) | 187. (c) | 188. (c) | 189. (b) | 190. (a) | 191. (c) | 192. (c) |
| 193. (a) | 194. (c) | 195. (c) | 196. (b) | 197. (c) | 198. (a) | 199. (c) | 200. (a) |
| 201. (a) | 202. (b) | 203. (b) | 204. (c) | 205. (b) | 206. (a) | 207. (a) | 208. (b) |
| 209. (a) | 210. (a) | 211. (c) | 212. (d) | 213. (b) | 214. (c) | 215. (b) | 216. (b) |
| 217. (d) | 218. (d) | 219. (a) | 220. (d) | 221. (a) | 222. (b) | 223. (a) | 224. (b) |
| 225. (b) | 226. (d) | 227. (b) | 228. (d) | 229. (a) | 230. (d) | 231. (c) | 232. (b) |