

1. What is the effective length of a column?

- a) The total length of the column
- b) The distance between two consecutive supports
- c) The length of the column above the footing
- d) The length of the column below the footing

Answer: b) The distance between two consecutive supports

Explanation: The effective length of a column is the distance between two consecutive points of inflection. It is essential for analyzing the stability of the column under different loading conditions.

2. Which type of column is prone to buckling under axial loads?

- a) Short column
- b) Long column
- c) Square column
- d) Rectangular column

Answer: b) Long column

Explanation: Long columns are more prone to buckling due to their slenderness ratio compared to short columns.

3. What is the shape of a circular column?

- a) Square
- b) Rectangular
- c) Circular
- d) Triangular

Answer: c) Circular

Explanation: Circular columns have a cylindrical shape, providing better load-bearing capacity and resistance to buckling.

4. Which type of footing supports a single column?

- a) Isolated footing
- b) Combined footing
- c) Strap footing
- d) Raft footing

Answer: a) Isolated footing

Explanation: Isolated footings, also known as pad footings, are used to support single columns or isolated loads.

5. What is the purpose of a strap footing?

- a) To increase the column height
- b) To reduce settlement of the foundation
- c) To connect two isolated footings
- d) To support eccentrically loaded columns

Answer: c) To connect two isolated footings

Explanation: Strap footings are used when two isolated footings are placed close to each other and need to be connected to distribute loads effectively.

6. Which type of foundation is suitable for columns subjected to both axial loads and bending moments?

- a) Isolated footing
- b) Combined footing
- c) Strap footing
- d) Raft foundation

Answer: b) Combined footing

Explanation: Combined footings are designed to support columns subjected to both axial loads and bending moments by distributing the loads to the soil.

7. In which type of section of a column are there no tensile stresses?

- a) Top section
- b) Middle section
- c) Bottom section
- d) Entire section

Answer: c) Bottom section

Explanation: In a column, the bottom section experiences only compressive stresses and no tensile stresses, assuming no eccentric loading.

8. Which type of foundation spreads the load over a large area?

- a) Isolated footing
- b) Combined footing
- c) Strap footing
- d) Raft foundation

Answer: d) Raft foundation

Explanation: Raft foundations, also known as mat foundations, spread the load over a large area of soil to minimize settlement and provide stability.

9. Which factor affects the design of a strap footing?

- a) Column height
- b) Soil type
- c) Foundation depth
- d) Column width

Answer: b) Soil type

Explanation: The type and characteristics of the soil influence the design of a strap footing, particularly in terms of bearing capacity and settlement.

10. What is the primary function of a column's footing?

- a) To transfer loads from the column to the soil
- b) To increase the height of the column
- c) To provide lateral stability to the column
- d) To resist bending moments in the column

Answer: a) To transfer loads from the column to the soil

Explanation: The main purpose of a column's footing is to distribute the loads from the column to the underlying soil in a manner that prevents excessive settlement or instability.

Related posts:

1. Stones, Brick, Mortar and Concrete MCQs
2. Timber ,Glass , Steel and Aluminium MCQS
3. Flooring , Roofing ,Plumbing and Sanitary Material MCQS
4. Paints, Enamels and Varnishes MCQs
5. Miscellaneous ConstructionMaterials MCQs
6. Surveying & Levelling MCQS
7. Theodolite Traversing MCQs
8. Tacheometry MCQS
9. Curves MCQS
10. Hydrographic Survey MCQs
11. Drawing of Building Elements MCQS
12. Building Planning MCQS
13. Building Services MCQs
14. Architectural Principles MCQs
15. Town Planning & Perspective Drawing MCQs
16. Simple Stress and Strains MCQs

17. Bending and Shearing Stresses MCQs
18. Beam Deflection Methods MCQs
19. Columns and Struts MCQs
20. Torsion of Shafts MCQs
21. Review of Fluid Properties MCQs
22. Kinematics of Flow MCQs
23. Dynamics of Flow MCQs
24. Laminar Flow MCQs
25. Fluid Mechanics MCQs
26. Highway Engineering MCQs
27. Bituminous & Cement Concrete Payments MCQS
28. Transportation Engineering MCQs
29. Airport Planning and Geometrical Elements MCQs
30. Airport, Obstructions, Lightning & Traffic control MCQs
31. Preliminary and detailed investigation methods MCQs
32. Construction equipments MCQs
33. Contracts MCQs
34. Specifications & Public Works Accounts MCQs
35. Site Organization & Systems Approach to Planning MCQs
36. Construction Estimation MCQs
37. Rate Analysis MCQs
38. Detailed Estimates MCQs
39. Cost of Works MCQS
40. Valuation MCQS
41. Marine Construction MCQs
42. Harbour Planning MCQs
43. Natural Phenomena MCQS

44. Marine Structures MCQs
45. Docks and Locks MCQS
46. Urban Planning MCQs
47. Urban Planning MCQs: Sustainability, Finance, and Emerging Concepts
48. Urban Planning MCQs
49. Traffic transportation systems MCQs
50. Development plans MCQS
51. Remote Sensing MCQs
52. Remote Sensing Platforms and Sensors MCQS
53. Geographic Information System MCQS
54. Data Models mCQs
55. Integrated Applications of Remote sensing and GIS MCQs
56. Renewable Energy MCQs
57. Renewable Energy Systems Overview MCQ
58. Renewable Energy MCQs
59. Alternative Energy Sources MCQs
60. Electric Energy Conservation MCQs
61. Entrepreneurship MCQs
62. Motivation MCQS
63. Small Business Setup MCQs
64. Finance and Accounting MCQs
65. Entrepreneurial Sickness and Small Business Growth MCQs
66. Design features and construction of Foundations MCQs
67. Formwork and Temporary structures MCQs
68. Masonry and walls MCQS
69. Floor and Roof Construction MCQs
70. Earthquake-Resistant Building MCQs

71. Virtual work and Energy Principles MCQS
72. Indeterminate Structures-I MCQS
73. Indeterminate Structures - II MCQs
74. V Arches and Suspension Cables MCQS
75. Rolling loads and Influence Lines MCQS
76. Railway Track Construction MCQs
77. Railway Track Design and Signaling MCQs
78. Bridge Construction Essentials MCQs
79. Bridge Construction MCQs
80. Tunnels MCQS
81. Geology Earth's Processes and Phenomena MCQs
82. Mineralogy and crystallography MCQs
83. Petrology MCQs
84. Structural geology MCQs
85. Geology, Remote Sensing, and GIS MCQs
86. Waste water Treatment Operations MCQs
87. Biological Treatment of waste-water MCQS
88. Advanced Waste-water treatment MCQS
89. Introduction of Air pollution MCQS
90. Air pollution chemistry MCQs
91. Undamped Single Degree of Freedom System MCQS
92. Damped Single Degree of Freedom System MCQ
93. Response to harmonic and periodic vibrations MCQS
94. Response to Arbitrary, Step, and Pulse Excitation MCQS
95. Multi Degree of Freedom System MCQS
96. Structural Engineering MCQs
97. Building Services MCQs

- 98. Lift & Escalator MCQS
- 99. Fire-Fighting MCQs
- 100. Acoustics and sound insulation and HVAC system MCQS
- 101. Miscellaneous Services MCQS
- 102. Basic Principles of Structural Design MCQs
- 103. Design of Beams MCQs
- 104. Design of Slabs MCQS
- 105. Staircases MCQs
- 106. Water Resources MCQs
- 107. Water Supply Systems MCQs
- 108. Water Treatment methods MCQs
- 109. Sewerage Systems MCQS
- 110. Wastewater Analysis & Disposal MCQs
- 111. Irrigation water requirement and Soil-Water-Crop relationship MCQS
- 112. Ground Water and Well irrigation MCQs
- 113. Hydrology MCQs
- 114. Canals and Structures MCQs
- 115. Floods MCQS
- 116. Prefabrication in Construction MCQs
- 117. Prefabricated Construction MCQs
- 118. Design Principles MCQs
- 119. Structural Joint MCQs
- 120. Design of abnormal load MCQS
- 121. Advance Pavement Design MCQs
- 122. Flexible Pavements MCQS
- 123. Rigid Pavements MCQS
- 124. Rigid pavement design MCQs



- 125. Evaluation and Strengthening of Existing Pavements MCQS
- 126. Cost Effective & ECO-Friendly Structures MCQs
- 127. Cost effective construction techniques and equipments MCQs
- 128. Cost effective sanitation MCQS
- 129. Low Cost Road Construction MCQs
- 130. Cost analysis and comparison MCQ
- 131. Turbulent flow MCQS
- 132. Uniform flow in open channels MCQs
- 133. Non uniform flow in open channels MCQs
- 134. Forces on immersed bodies MCQs
- 135. Fluid Machines MCQs
- 136. Intellectual Property Rights MCQs
- 137. Copyright MCQs
- 138. Patents MCQs
- 139. Trade Marks, Designs & GI MCQs
- 140. Contemporary Issues & Enforcement of IPR MCQs
- 141. Concept of EIA MCQs
- 142. Methods of Impact Identification MCQs
- 143. Impact analysis MCQs
- 144. Preparation of written documentation MCQs
- 145. Public Participation in Environmental Decision making MCQs
- 146. Linear Models MCQs
- 147. Transportation Models And Network Models MCQs
- 148. Inventory Models MCQs
- 149. Queueing Models MCQS
- 150. Decision Models MCQs
- 151. Basis of Structural Design and Connection Design MCQS

- 152. Design of Compression and Tension Members MCQs
- 153. Design of Flexural Members MCQs
- 154. Design of Columns and Column Bases MCQs
- 155. Design of Industrial Buildings MCQS
- 156. Hydrological Cycle mCQs
- 157. Hydrological Measurement MCQs
- 158. Groundwater and Well Dynamics MCQs
- 159. Hydrology MCQs
- 160. Hydrology MCQs
- 161. Selection of foundation and Sub-soil exploration/investigation MCQs
- 162. Shallow Foundation MCQs
- 163. Pile foundations MCqs
- 164. Foundations on problematic soil & Introduction to Geosynthetics MCQs
- 165. Retaining Walls and Earth Pressure MCQs
- 166. Types of Bridge Super Structures MCQs
- 167. Design of R.C. Bridge MCQs
- 168. Design of Steel Bridges MCQs
- 169. Pier, Abutment and Wing Walls MCQs
- 170. Foundations and Bearings MCQs
- 171. Engineering Seismology MCQS
- 172. Response Spectrum MCQs
- 173. Aseismic Structural Modelling MCQS
- 174. Design of structure for earthquake resistance MCQS
- 175. Seismic control of structures MCQs
- 176. Introduction to Artificial Intelligence MCQs
- 177. Various types of production systems and search techniques MCQs
- 178. Knowledge Representation and Probabilistic Reasoning MCQS

- 179. Game playing techniques MCQs
- 180. Introduction to learning ,ANN MCQs
- 181. Concrete Structure MCQs
- 182. Damage Assessment MCQs
- 183. Influence on Serviceability and Durability MCQs
- 184. Maintenance and Retrofitting Techniques MCQs
- 185. Materials for Repair and Retrofitting MCQs
- 186. Paradigm Shift in Water Management MCQS
- 187. Sustainable Water Resources Management MCQs
- 188. Integrated Water Resources Management (IWRM) Approach MCQs
- 189. Surface and Subsurface Water Systems MCQS
- 190. Conventional and Non-conventional Techniques for Water Security MCQs
- 191. Combustion in CI Engines MCQs
- 192. Mechatronics Overview and Applications MCQs
- 193. Friction MCQs
- 194. Work measuremen MCQs
- 195. Process improvement MCQs
- 196. Vapour absorption system MCQs
- 197. Emission standards and pollution control MCQs
- 198. Design of Metal working Tools MCQs
- 199. DESCRIPTIVE STATISTICS MCQs
- 200. System Concepts MCQs