

1. What type of structural elements are Influence Lines commonly used for?

- a) Beams
- b) Columns
- c) Trusses
- d) Foundations

Answer: a) Beams

Explanation: Influence lines are primarily used for beams to determine the maximum effect (such as shear force or bending moment) caused by a moving load along the span of the beam.

2. Which type of loading is typically considered in the construction of Maximum SF and BM curves?

- a) Static loads
- b) Dead loads
- c) Rolling loads
- d) Wind loads

Answer: c) Rolling loads

Explanation: Maximum shear force (SF) and bending moment (BM) curves are often constructed considering rolling loads, which represent moving loads along the beam.

3. What structural type is often analyzed using Influence Lines for Determinate Structures?

- a) Suspended bridges
- b) Reinforced concrete slabs
- c) Three-hinged arches
- d) Retaining walls

Answer: c) Three-hinged arches

Explanation: Influence lines are commonly used to analyze determinate structures like three-hinged arches, providing insights into the distribution of internal forces under various loading conditions.

4. What does EUDL stand for in the context of Influence Lines and Rolling Loads?

- a) Effective Uniform Distributed Load
- b) Excess Unbalanced Dead Load
- c) Endless Uniform Dynamic Load
- d) Extended Underlying Distributed Load

Answer: a) Effective Uniform Distributed Load

Explanation: EUDL refers to Effective Uniform Distributed Load, a concept used in the analysis of influence lines to represent the dynamic effect of rolling loads on a beam.

5. Influence lines are primarily concerned with determining:

- a) Material properties of the beam
- b) Deflection of the beam
- c) Maximum internal forces in the beam

d) External environmental factors affecting the beam

Answer: c) Maximum internal forces in the beam

Explanation: Influence lines are used to determine the maximum internal forces, such as shear force and bending moment, at different locations along the beam due to the movement of loads.

6. Which of the following is NOT a type of structural element typically analyzed using Influence Lines?

- a) Beams
- b) Trusses
- c) Columns
- d) Retaining walls

Answer: d) Retaining walls

Explanation: While influence lines are commonly used for beams and trusses, they are not typically applied to analyze retaining walls, which have different load-bearing characteristics.

7. In the context of Influence Lines, what does the term “focal length” refer to?

- a) Distance between supports
- b) Length of the beam
- c) Position of the moving load
- d) Distance between the load and the beam

Answer: c) Position of the moving load

Explanation: Focal length in influence lines refers to the distance along the beam where the moving load is positioned to determine the maximum effect on the structure.

8. Influence lines help engineers in designing structures by providing information about:

- a) Material strength
- b) Load distribution
- c) Environmental conditions
- d) Aesthetic considerations

Answer: b) Load distribution

Explanation: Influence lines offer insights into how loads are distributed and where maximum forces occur within a structure, aiding engineers in optimizing the design to withstand varying loads.

9. What type of support system is commonly associated with Three Hinged Arches analyzed using Influence Lines?

- a) Pinned supports
- b) Roller supports
- c) Fixed supports
- d) Hinged supports

Answer: d) Hinged supports

Explanation: Three-hinged arches typically feature hinged supports, and influence lines are used to analyze the distribution of forces within such structures under different loading conditions.

10. Which of the following is NOT a factor influencing the shape of Influence Lines?

- a) Magnitude of the load
- b) Position of the load
- c) Span of the beam
- d) Material properties of the beam

Answer: d) Material properties of the beam

Explanation: While the material properties of the beam affect its overall behavior, they do not directly influence the shape of influence lines, which are primarily influenced by load magnitude, position, and beam span.

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. Railway Track Construction MCQs
76. Railway Track Design and Signaling MCQs
77. Bridge Construction Essentials MCQs
78. Bridge Construction MCQs
79. Tunnels MCQS
80. Geology Earth's Processes and Phenomena MCQs
81. Mineralogy and crystallography MCQs
82. Petrology MCQs
83. Structural geology MCQs
84. Geology, Remote Sensing, and GIS MCQs
85. Waste water Treatment Operations MCQs
86. Biological Treatment of waste-water MCQS
87. Advanced Waste-water treatment MCQS
88. Introduction of Air pollution MCQS
89. Air pollution chemistry MCQs
90. Undamped Single Degree of Freedom System MCQS



91. Damped Single Degree of Freedom System MCQ
92. Response to harmonic and periodic vibrations MCQS
93. Response to Arbitrary, Step, and Pulse Excitation MCQS
94. Multi Degree of Freedom System MCQS
95. Structural Engineering MCQs
96. Building Services MCQs
97. Lift & Escalator MCQS
98. Fire-Fighting MCQs
99. Acoustics and sound insulation and HVAC system MCQS
100. Miscellaneous Services MCQS
101. Basic Principles of Structural Design MCQs
102. Design of Beams MCQs
103. Design of Slabs MCQS
104. Columns & Footings 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. Programming Practices MCQ
- 192. Biodiversity and its conservation MCQ
- 193. Relational algebra, Functions and graph theory MCQ
- 194. Sequential logic MCQ
- 195. Library Management System MCQ
- 196. Trees, Graphs, and NP-Completeness MCQ
- 197. I/O Organization MCQ
- 198. Operating Systems and Concurrency

199. Genetic Algorithms MCQ

200. Review of traditional networks MCQ