



POORNIMA UNIVERSITY, JAIPUR.
MID SEMESTER EXAMINATION 2020-21 (ODD Semester)

School : School of Planning and Architecture
Course : IV Year VII SEM
Subject Name : Architectural Structures-VII
Subject Code : BAR07104

Max. Time: 1.5 hrs.

Max. Marks: 12

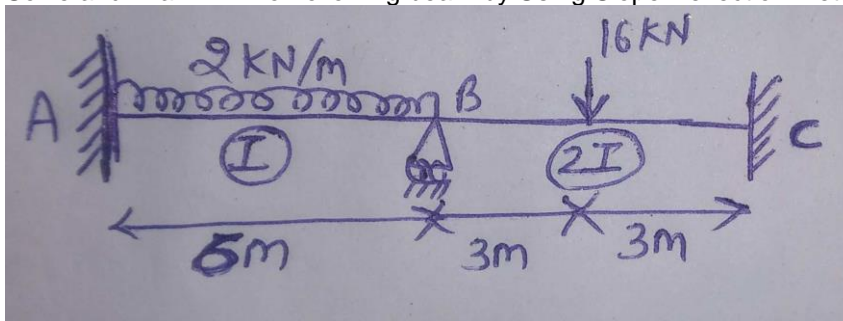
NOTE:- Attempt three questions. There is internal choice in Q. 1 & 2, Q. 3 & 4, Q. 5 & 6.

Sec-A (CO 3) (Max. Marks-6)

- | | | Marks |
|-----|---|-------|
| Q.1 | (a) Explain static & Kinematic indeterminacy with example | (1.5) |
| | (b) Write Short notes on parabolic and circular Arch | (1.5) |
| | OR | |
| Q.2 | (a) Derive Equation of parabolic arch. | (1.5) |
| | (b) What is three hinge arches? Describe it's various parts. | (1.5) |
| Q.3 | Define indeterminacy, crown point and rise of an arch | (3) |
| | OR | |
| Q.4 | Derive fixed end moments for a fixed beam having point load at its centre | (3) |

Sec-B (CO 4) (Max. Marks-6)

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| Q.5 | Solve and Draw BMD of following beam by Using Slope Deflection method. | (6) |
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OR

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| Q.6 | Solve and Draw BMD of following beam by Using Moment Distribution method. | (6) |
|-----|---|-----|

