## Model Question Paper - 1 with effect from 2020-21(CBCS Scheme)

USN $\square$

## Fifth Semester B.E. Degree Examination

 ANALYSIS OF INDETERMINATE OF STRUCTURES
## TIME: 03 Hours

Note: 01. Answer any FIVE full questions, choosing at least ONE question from each MODULE.
Q.1(a) Analyze the continuous beam shown in fig. Q.1a, by slope deflection method. Draw BMD and SFD
Q.4(a)

| Q.7(a) | Analyze the continuous beam shown in fig. Q.7.a, by Flexibility Matrix Method. Draw BMD. <br> fig. Q.7.a | 20 |
| :---: | :---: | :---: |
| OR |  |  |
| Q.8(a) | Analyse the portal frame ABCD shown in fig.8(a) by flexibility matrix method. Draw BMD <br> fig. 8 (a) | 20 |
| Module - 5 |  |  |
| Q.9(a) | Analyze the continuous beam shown in fig. Q.9(a), by Stiffness Matrix Method. Draw BMD and SFD. | 20 |
| OR |  |  |
| Q.10(a) | Analyse the portal frame shown in fig.Q. 10(a) by stiffness matrix method and Draw BMD. | 20 |



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Analysis of Indeterminate Structures
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Fig.Q. 3


| OR |  |  |
| :---: | :---: | :---: |
| Q. 8 | Analyze the pin-jointed truss shown in Fig.Q. 8 by matrix flexibility method of system approach and determine forees in all the members. Take foree in member ' OA ' as redundant. | 20 Marks |
|  | Module - 5 - |  |
| Q. 9 | Analyze the rigid frame shown in Fig.Q. 9 by matrix stiffness method and draw BMD. | 20 Marks |
| OR |  |  |
| Q. 10 | Analyze the pinjointed frame shown in Fig.Q. 10 by matrix stiffness method and find the forces in all the members. The numbers in parentheses are the $\mathrm{C} / \mathrm{S}$ areas of members in sqmm.(Take $\mathrm{E}=$ constant). | 20 Marks |

