Total No. of Questions : 8]

P1482



[Total No. of Pages : 4

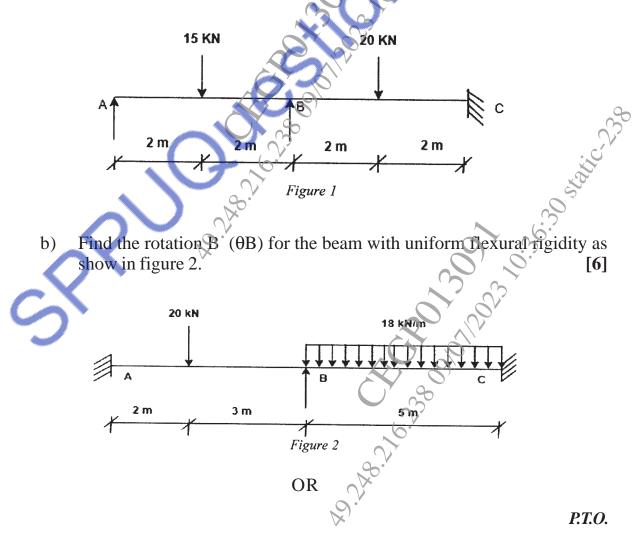
[6002]-109 S.E. (Civil) STRUCTURAL ANALYSIS (2019 Pattern) (Semester-IV) (201011)

Time : 2¹/₂ Hours]

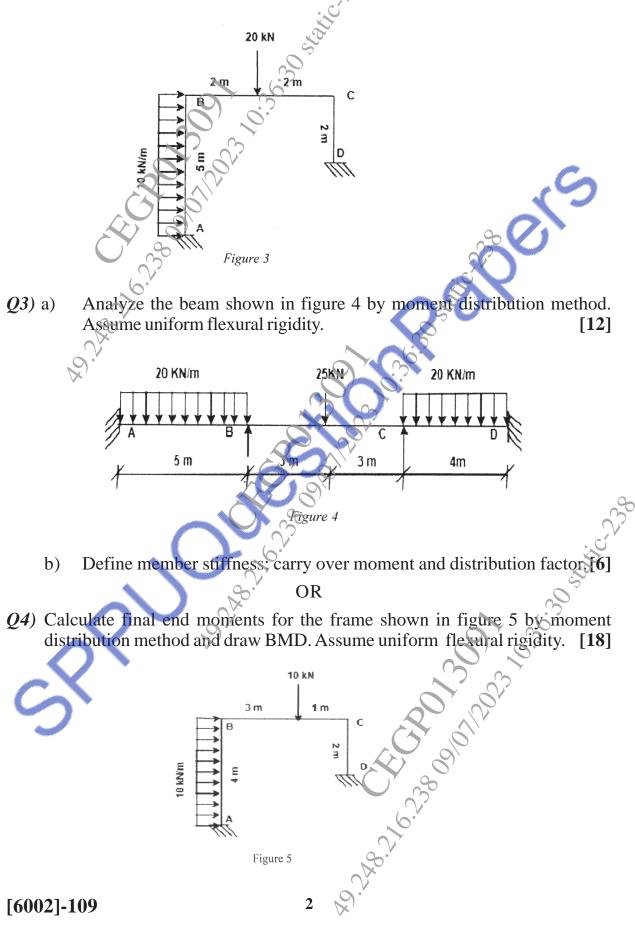
[Max. Marks : 70

Instructions to the candidates:

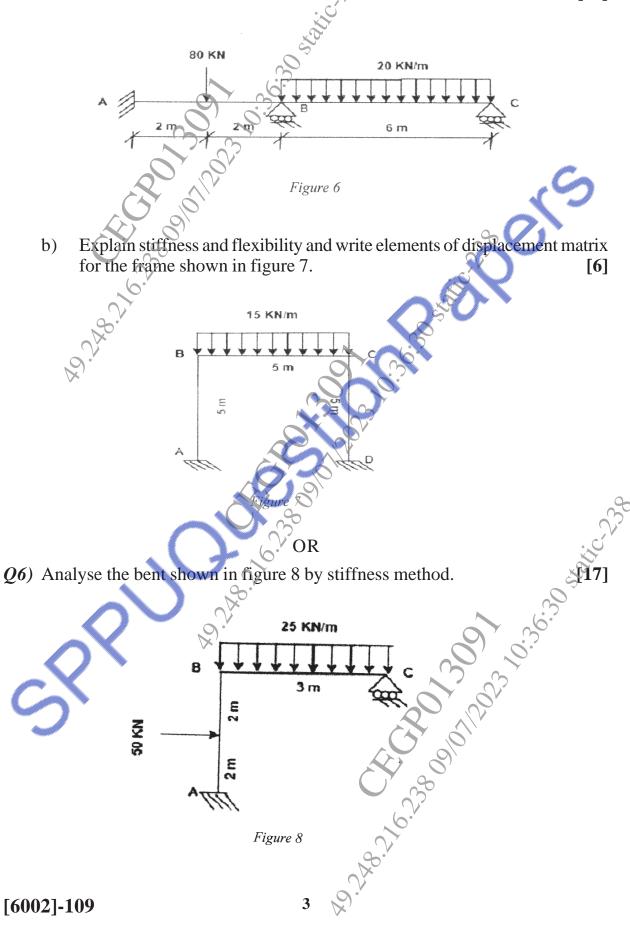
- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat sketcnes must be drawn wherever necesary.
- 3) Figures to the right side indicate full marks.
- 4) Assume Suitable data if necessary.
- 5) Use of electronic pocket calculator allowed.
- 6) Use of cell phone is prohibited in the examination hall
- *Q1*) a) Analyze the beam shown in figure 1 by slope deflection method and draw B.M.D. Assume uniform flexural rigidity. [12]



Q2) Analyze the frame shown in figure 3 by Gope deflection method and draw BMD. Assume uniform flexural rigidity.



Q5) a) Analyze the beam ABC shown in figure 6 by stiffness method and draw BMD. [11]



Q7) a) Determine collapse load for the beam shown in figure 9 with variable moment or resistance. [12]

