B.Tech III Year I Semester (R09) Supplementary Examinations December 2015 STRUCTURAL ANALYSIS - II
(Civil Engineering)
Time: 3 hours
Max. Marks: 70

## Answer any FIVE questions

All questions carry equal marks

Analyze the frame shown in figure by moment distribution method and sketch BMD.


Analyze the continuous beam shown in figure by Kani's method and sketch BMD.


Contd. in page 2

Code: 9A01504

6 Analyze the continuous beam shown in figure by Flexibility method and sketch BMD.


7 Analyze the continuous beam shown in figure by Stiffness method and sketch BMD.


8 (a) Define shape factor.
(b) Determine the collapse load of a propped cantilever of span $L$ subjected to a U.D.L.W per unit length. If the plastic moment capacity of the beam is $M_{p}$.

