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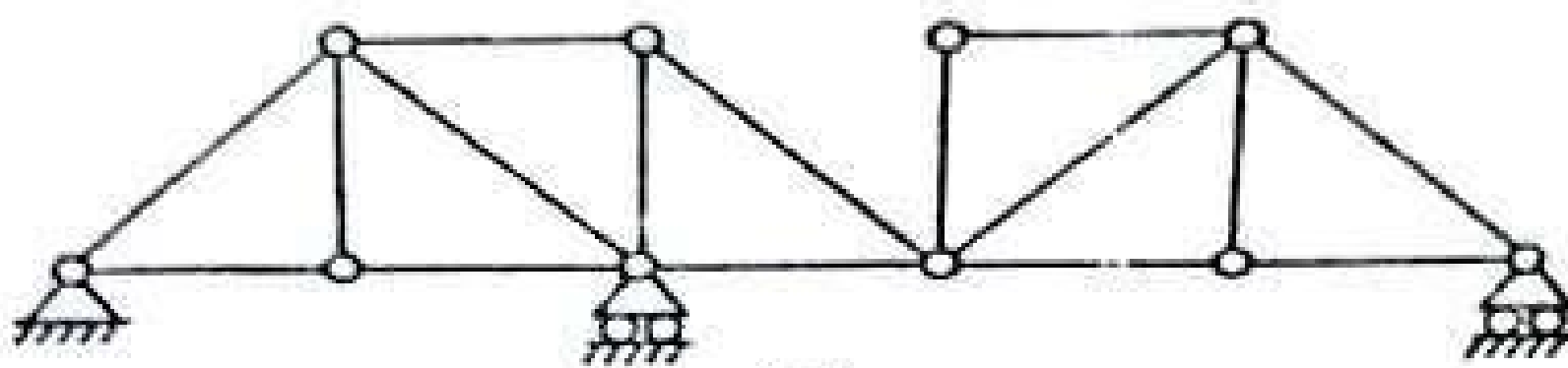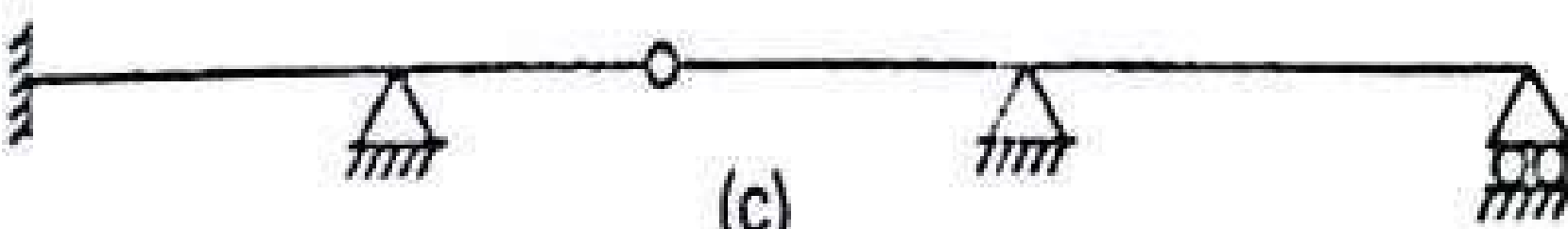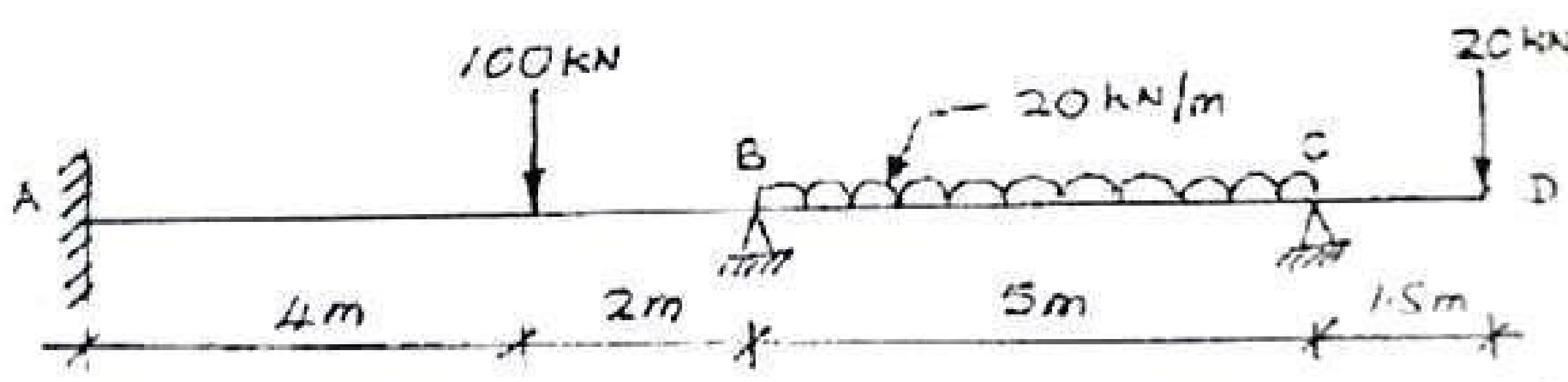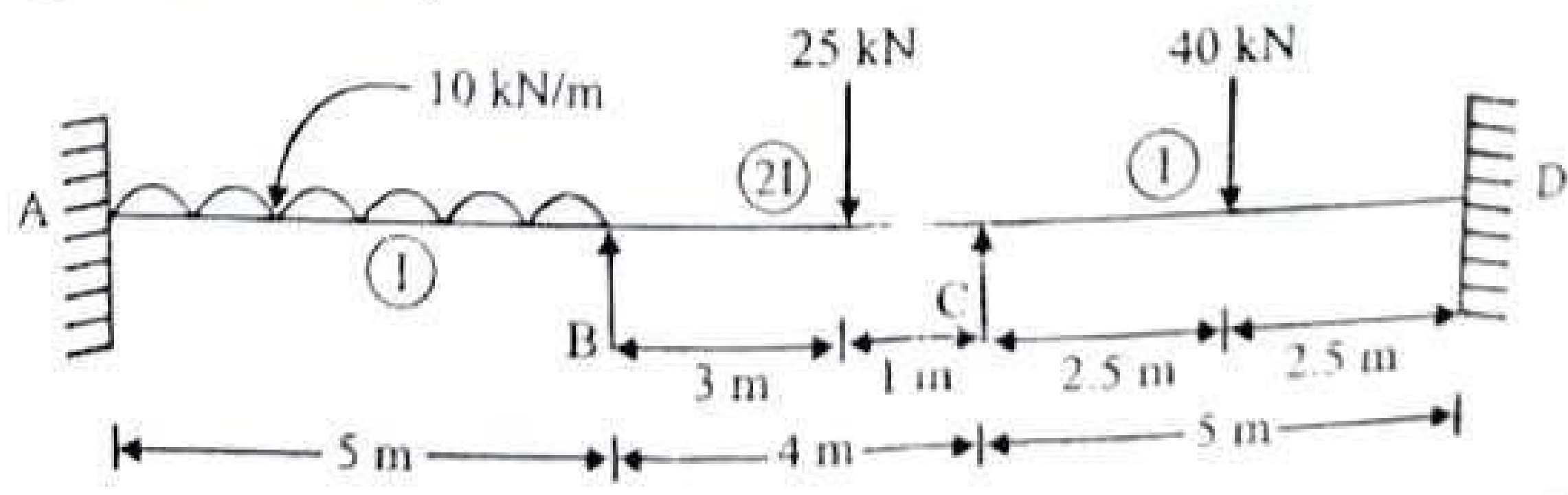**Continuous Assessment Test – I**

Programme Name & Branch: B.Tech- Civil Engineering

Course Name & Code: CLE 2003 Structural AnalysiClass

Number: VL20192050006069   Slot: A1+TA1   Exam Duration: 90 Mins   Maximum Marks: 50

S.No.	Question
1.	a) What is meant by static and kinematic indeterminacy? (3 Marks) b) Find the internal, eternal and total indeterminacy of given truss (4 Marks) (b) c) Find the indeterminacy of the beam (3 marks) (c)
2.	Analyse the continuous beam ABCD shown in Fig by three moment equation. The support B sinks by 15mm. Take $E = 200 \times 10^5$ kN/m^2 and $I = 120 \times 10^{-6}$ m^4 (20 marks)
3.	Analyse the continuous beam loaded as shown in Fig. by the moment distribution methods. Sketch the bending moment and shear force diagrams (20 Marks)