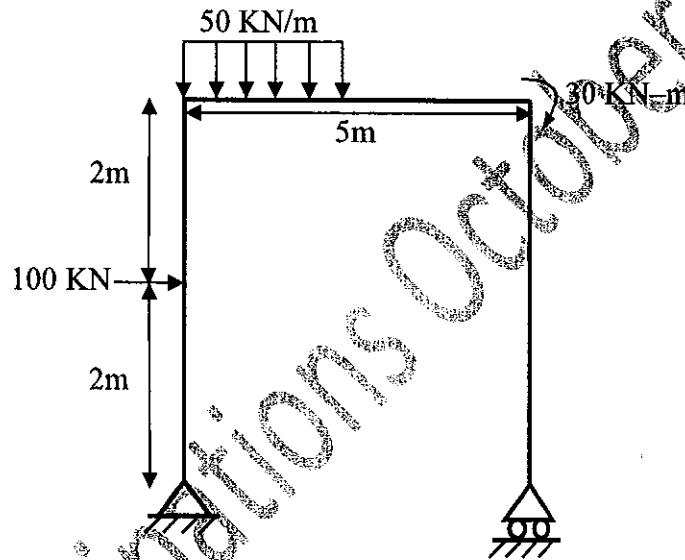


*Note: All questions are compulsory. Marks are indicated against each question in square brackets.*

1. State and prove the Maxwell's Law of Reciprocal Deflections. [6]
2. Draw the free body diagram of the following frame. [4]



3. In the following spring assembly, find the displacement at all nodes and forces in all elements. Assume  $k = 50 \text{ N/m}$ . [5]

