



Mid-Term Exam

Total Marks: 15

No. of Questions:1

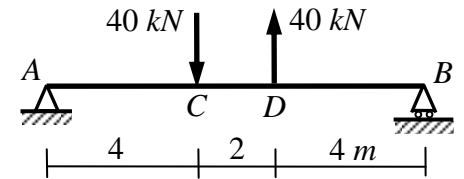
Name:

Code:

Question (1): (15 Marks)

- Using the **moment-area method**, determine the slope at **A** and the deflection at **D**.
- Using the **conjugate beam method**, determine the slope at **B** and the deflection at **C**.
- Sketch the elastic curve of the beam.

$$EI = 1 \times 10^4 \text{ kN.m}^2$$



Solution:

a)