Name in Arabic : Number:	Lecture time :
TAING GATID HAITED GERY	CERTICETIDAT ANALYZIO CE ACA

KING SAUD UNIVERSITY
COLLEGE OF ENGINEERING
CIVIL ENGINEERING DEPARTMENT

STRUCTURAL ANALYSIS: CE 361 FIRST SEMESTER, 1427/1428 H TIME: 90 min

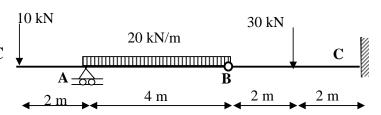
SECOND MID TERM

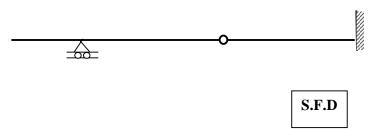
Note: Answer all problem in their provided space, it is recommended to use pencils for the answers

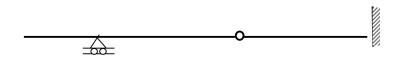
Problem 1: (10 points)

For the shown loaded beam it is required to;

- 1- Determine the reactions at supports A & C
- 2- Check the equilibrium of the beam
- 3- Draw S.F.D and B.M.D showing all necessary values on the diagrams with a reasonable scale.
- 4- Find the maximum positive moment.







B.M.D

Name in Arabic:

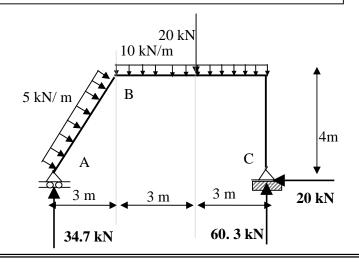
Lecture time :

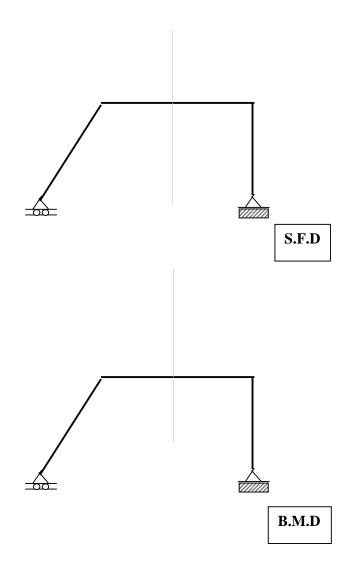
Number:

Problem 2: (10 points)

For the shown loaded ABC Frame, and given reactions

- 1- Draw the S.F.D
- 2- Draw the B.M.D





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Number:	

Problem 3: (10 points)

For the shown loaded beam with variable moment of Inertia, Use the **Moment Area method**, or **Conjugate Beam Method** to determine the maximum deflection.

