

LNCT UNIVERSITY, BHOPAL

CS-105

II_{nd}MID-SEM Examination,[JAN- 2024]

B.TECH.- I SEM

Civil Engineering and Mechanics

Time-1:30Hour

MM-20

Note: Attempt all questions. Internal choice is available for all questions

1(a) what is the composition of cement? Briefly define

CO1 (6)

Or

1(b) what are the various laboratory tests for cement?

CO1 (6)

2(a) what do you understand by smart irrigation, explain in detail.

CO3 (6)

Or

2(b) Define remote sensing and its various applications in civil engineering

CO3 (6)

3(a) Determine the Moment of Inertia of T Section as shown in figure-1 about its Centroidal axis (i.e., about xx- and yy- axis).

CO5 (8)

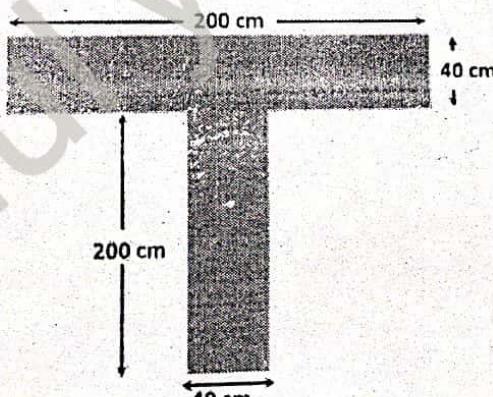


figure-1

Or

3(b) Draw shear force and bending moment diagram of beam as shown in figure-2.

CO5 (8)

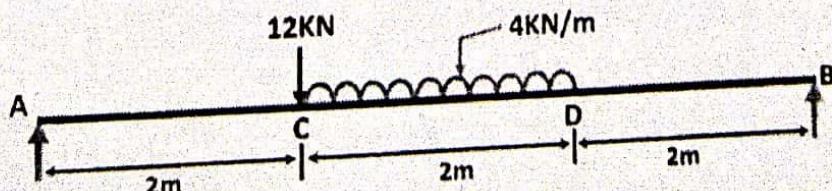


figure-2