

[Total No. of Questions:3]
Class Roll No.

[Total No. of printed pages: 1]
Enrollment No

LNCT UNIVERSITY, BHOPAL

CS-105

IInd MID-SEM Examination, [JAN- 2024]

B.TECH.- I SEM

Civil Engineering and Mechanics

Time-1:30 Hour

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)**

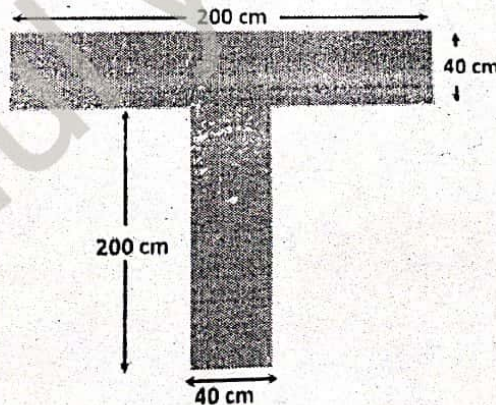


figure-1

Or

3(b) Draw shear force and bending moment diagram of beam as shown in figure-2. **CO5 (8)**

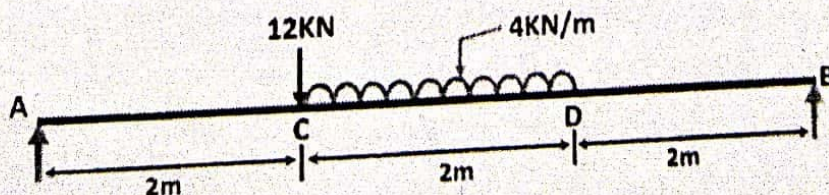


figure-2