

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

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

**LNCT University**  
**2<sup>nd</sup> MID-SEM EXAMINATION [JUNE-2024]**  
**CEM [CS-105]**  
**II SEM**

Time: 1 ½ Hrs.

Maximum Marks: 20

Note: Attempt all questions.

**Q.1.** Define and explain various engineering properties of good bricks.  
CO-02 (7 Marks)

**OR**

What do you understand by the term “Workability of concrete”?  
Define and explain how we can detect workability?

**Q.2.** Explain the concept of smart city.

CO-03 (7 Marks)

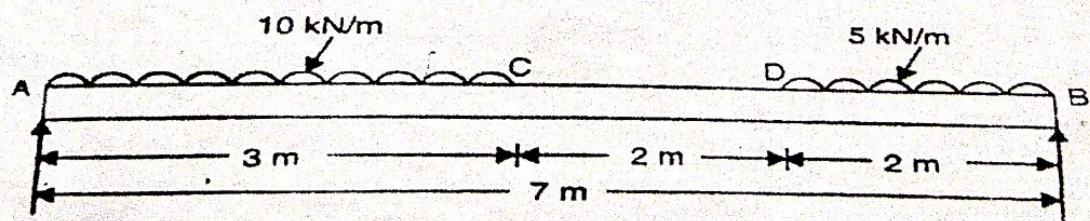
**OR**

What is remote sensing? Also give the Application of remote sensing in Civil engineering.

**Q. 3.** Explain Moment of Inertia (M.I.)? State perpendicular axis theorem and parallel axis theorem.  
CO-05 (6 Marks)

**OR**

Draw the S.F and B.M diagram of simply supported beam of length 7 m carrying uniformly distributed load as shown in Fig.



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