

## **Structural Engineering**

### **Important 2mark questions**

1. Define modular ratio.
2. What is meant by characteristic strength of a material?
3. Write down the bending moment co-efficient for continuous beam in all position.
4. What is meant by slenderness ratio for columns?
5. Define plastic section modulus of sections.
6. Define limit state.
7. Mention the different forms of shear reinforcement provided for beams.
8. Define tread and rise of a stair.
9. What is a main function of column footings?
10. Define shape factor.
11. What is a T-beam?
12. List out any two differences between one way slab and two way slab.
13. Mention any two rolled steel sections.
14. Write down the span depth ratio for controller beam and simply supported beam.
15. Mention the different types of welds.

### **Important 3mark questions**

1. Mention different limit state.
2. How will you find out the effective span of a simply supported beam?
3. What is meant by middle strip and edge strip?
4. Write the types of RC footings.
5. What are the assumptions made in design of columns by LSM?
6. Differentiate under reinforced and over reinforced sections.
7. What is meant by isolated footing and combined footing?
8. Classify steel beams.
9. Mention the different rolled steel I sections.
10. When torsion reinforcement is provided in two way slabs? Explain the code provisions regarding torsion reinforcement in slab.