

**B.Tech. Civil Engineering (NEP Pattern) Semester-I**  
**STPCCCEC104 / STPCCCE108 - Basics of Civil Engineering**

P. Pages : 1



Time : Two Hours

**GUG/S/25/16149**

Max. Marks : 40

- 
- Notes : 1. All questions carry equal marks.  
2. Assume suitable data wherever necessary.

1. a) What is Civil Engineering? Explain its importance. 4  
b) What are types of Building as per NBC. 4

**OR**

2. a) What is foundation? State its purpose. 4  
b) What are different types of masonry construction. 4

3. a) What cement concrete? State different grades. 4  
b) What is mortar? Why sand is used in mortar? 4

**OR**

4. a) What is Plastering, pointing and painting in building construction. 4  
b) What are the constituents of good bricks? 4

5. a) State basic principle of surveying. 4  
b) Distinguish between plans and maps. 4

**OR**

6. Write a note on: 8  
i) EDM  
ii) Total station  
iii) Theodolites

7. a) What do you understand by the term earthquake? State its causes. 4  
b) What is disaster? Explain disaster mitigation. 4

**OR**

8. Write short note on: 8  
i) Earthquake resistance of building.  
ii) Disaster mitigation.

9. a) What are different modes of transport. 4  
b) State the objectives of highway planning. 4

**OR**

10. a) State the components a Railway track. 4  
b) Define gauge, rails and sleepers. 4

\*\*\*\*\*