

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

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- 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
