

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

P. Pages : 2

Time : Two Hours



**GUG/W/24/16149**

Max. Marks : 40

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- Notes :
1. All questions carry equal marks.
  2. Due credit will be given to neatness and adequate dimensions.
  3. Assume suitable data wherever necessary.

1. a) Explain in details importance of civil engineering. 4  
b) Write down various part of building. Explain any two. 4

**OR**

2. a) Write down classification of foundation. Explain any one. 4  
b) Explain the term dampness and give its prevention. 4
3. a) What are the different types of sand used in making mortar? 4  
b) What is meant by curing of concrete? Why it is necessary and how it is made? 4

**OR**

4. a) State the engineering properties and use of the following: 4  
i) Cast iron  
ii) Wrought iron  
iii) Steel  
iv) Aluminum  
b) Explain the term bitumen and state their properties and uses. 4
5. a) What is surveying. State the principle of surveying. 4  
b) Distinguish between plans and maps. 4

**OR**

6. a) Explain the use of total station. 4  
b) Explain uses drone survey in civil engineering. 4

7. a) What do you understand by the term earthquakes? What are its causes? 4
- b) Write short notes on 4
- i) Magnitude
- ii) Intensity of earthquake

**OR**

8. a) Define the term 'disaster'. Name various disasters. 4
- b) Write short notes on 4
- i) Early disaster warning systems
- ii) Disaster preparedness
9. a) Explain the planning and design aspects of transportation engineering. 4
- b) Write down the various Transportation modes. 4

**OR**

10. a) Explain the classification of highway. 4
- b) Explain the importance of railway engineering 4

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