**BHARATI VIDYAPEETH INSTITUTE OF TECHNOLOGY**

**Question Bank (I-Scheme)**

**Name of subject: Building Construction Unit Test: I**

**Subject code: 22304 Course: CE**

 **Semester: III**

**CHAPTER 1 (Overview of Building components)**

**(2 Marks)**

a. State any two building components with their function.

b. State any one function of parapet & bean plinth roof.

c. Define the terms Substructure and Superstructure used in building construction.

**(4 Marks)**

a. Differentiate between load bearing structure and framed structure (any four points).

b. Classify the buildings as mentioned in ‘National Building code’ (2016) with an example of each.

 **CHAPTER 2 (Construction of Substructure)**

**(2 Marks)**

a. State any two purposes of foundation.

b. What is timbering & strutting?

c. Define job layout and site clearance.

d. State any four precautions to be taken while marking layout on ground.

**(4 Marks)**

a. Draw neat sketch of under reamed pile foundation & state situation under which it is adopted.

b. State the precautions to be taken while constructing a foundation in Black cotton soil.

c. Write down necessity of dewatering of foundation trenches and methods used.

d. Explain pile foundation and caisson with neat sketches.

e. State any essential requirements of good foundation.

f. Classify the piles as per function and materials.

g. What is Shallow foundation? State the situation where combined footing & raft foundation are suitable.

**CHAPTER 3 (Construction of Superstructure)**

**(2 Marks)**

a. Define i) Weathering ii) Trough stone.

b. Define the terms Facing and Hearting in Stone masonry.

c. State the importance of Fog.

**(4 Marks)**

a. Describe any eight characteristics of good stone masonry.

b. Differentiate between Brick masonry and Stone masonry.

c. Explain the necessity of scaffolding and shoring.

d. Explain English bond and Flemish bond in brick work with neat sketches.

e. State any four advantages of hollow concrete block masonry.

f. What is meant by composite masonry? State its different types.

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