

- Q.17 Write a short note on deep foundations.
- Q.18 What are the characteristics of a Pile foundation?
- Q.19 Distinguish between a lintel and an arch.
- Q.20 Write a short note on 'Brick jallies' provided in one brick thick wall in English bond.
- Q.21 Write the procedure of damp proofing treatment for flat roofs.
- Q.22 What are the requirements of good D.P.C.?

#### **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 What is efflorescence? What is reason behind efflorescence? Describe the efflorescence test in detail.
- Q.24 Explain classification of Arches according to their shape with neat sketches.
- Q.25 Explain the various sources of the dampness in the buildings.

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220223

**2nd Sem. / Architectural Assistantship**

**Subject : Building Materials and Construction - I**

Time : 3 Hrs.

M.M. : 60

#### **SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Marble is an example of  
a) Aqueous rock      b) Sedimentary rock  
c) Metamorphic rock    d) Igneous rock
- Q.2 The crushing strength of a stone depends upon its  
a) Texture              b) Specific gravity  
c) Workability            d) Both a & b
- Q.3 The frog of a brick is normally made on its  
a) Longer face            b) Bottom face  
c) Shorter face            d) Top face

- Q.4 In brick masonry the bond produced by laying alternate headers and stretchers in each course is known as
- English bond
  - Zig Zag bond
  - Double Flemish bond
  - Single Flemish bond
- Q.5 The bearing capacity of a water logged soil can be improved by
- Compacting the soil
  - Increasing the depth of foundation
  - Draining the soil
  - Grouting
- Q.6 King Closer are related to
- Doors and windows
  - Queen post truss
  - King post truss
  - Brick masonry

## SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Rock formed by solidification of lava is known as \_\_\_\_\_
- Q.8 The hand made bricks are \_\_\_\_\_ to machine made bricks for facing purposes.
- Q.9 Over burnt bricks are known as \_\_\_\_\_ Bricks.
- Q.10 Define column.
- Q.11 Define Plinth.
- Q.12 Define D.P.C.

## SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 What are the requirements of a good building stone?
- Q.14 Write down the properties and uses of Granite.
- Q.15 Describe the water absorption test conducted on the brick.
- Q.16 Differentiate between English and Flemish bond.