

**Q.21** Write a short note on “Brick Jallies” provided in one brick thick wall in English bond. (CO4)

**Q.22 Differentiate between a lintel and an arch.(CO4)**

## **SECTION-D**

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

**Q.23 Explain the chemical classifications of rocks along with examples of each of them. (CO1)**

**Q.24 Explain the laboratory test procedure of determination of water absorption in bricks (CO2).**

**Q.25 Explain the various effects of dampness in buildings. (CO5)**

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**2nd Sem. / Branch: Architectural Assistantship  
Subject : Building Materials and Construction-1**

Time : 3 Hrs.

M.M. : 60

## **SECTION-A**

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

Q.1 The strength of a stone depends on.....  
(CO1)

- a) Chemical composition
  - b) Degree of packing of constituents
  - c) Structure of the rock
  - d) All of the above

**Q.2** In horizontal reinforcement, how many strips of hoop iron are used for one stretcher brick? (CO4)

- a) One                          b) Two  
c) Three                        d) Four

Q.3 .....is applied to the process of laying down certain lines and marks on the ground before the excavation of foundation trenches.  
(CO3)

- a) Ground tracing
  - b) Surveying
  - c) Dumpy level
  - d) Digging
- Q.4 Plumb rule is used for checking the ..... of brick walls. (CO4)
- a) Horizontality      b) Angularity
  - c) Uniformity      d) Verticality
- Q.5 Chemically inactive pore fillers ..... the workability. (CO5)
- a) Decrease      b) Increase
  - c) Don't affect      d) Improve
- Q.6 ..... Material is made of black polythene having a thickness of about 50 mm to 1 mm.
- a) Brick      b) Stone
  - c) Plastic Sheet      d) Cement Concrete

## SECTION-B

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

- Q.7 Limestone is derived from calcareous rocks. (T/F) (CO1)
- Q.8 The rocks which are formed due to the solidification of molten lava or magma is known as ..... rocks. (CO1)

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- Q.9 Define springer used in arches (CO4)
- Q.10 ..... is employed to prevent a damaged structure due to foundation settlement. (CO3)
- Q.11 Write the name of any two chemicals used in water proofing of buildings. (CO5)
- Q.12 The vertical height through which the excavated earth is lifted is called. .... (CO3)

## SECTION-C

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

- Q.13 Describe the minimum requirements to be fulfilled by the stones to be used as building construction materials. (CO1)
- Q.14 Write and describe the functions of various ingredients of good brick. (CO2)
- Q.15 Write the procedure of damp proofing treatment for flat roofs. (CO5)
- Q.16 Write a short note on deep foundations. (CO3)
- Q.17 Write purposes of providing the foundations to the structures. (CO3)
- Q.18 Describe the procedure to be adopted for earthwork in cutting. (CO3)
- Q.19 Write a short note on use of Flemish bond in brick masonry. (CO2)
- Q.20 Write a short note on use of "Segmental Arch" (CO4)

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