

- Q.17 Write a short note on mat foundations. (CO3)
- Q.18 Describe the procedures to be adopted for earthwork in embankment. (CO3)
- Q.19 Write a short note on use of rat trap bond in brick masonry. (CO2)
- Q.20 Write the points of differences between a lintel and an arch. (CO4)
- Q.21 Write a short note on use of "Reinforced Cement Concrete Lintels" in building constructions. (CO4)
- Q.22 Write a short note on "Brick Jallies" provided in one brick thick wall in Flemish bond. (CO4)

#### SECTION-D

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

- Q.23 Explain the physical classifications of rocks along with examples of each of them. (CO1)
- Q.24 Explain the laboratory test procedure of determination of compressive strength of bricks (CO2)
- Q.25 Explain the various sources which create dampness in buildings. (CO5)

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#### 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 Stones behave best to the compressive load when they are placed with their natural bedding\_\_\_\_\_ (CO1)
- Parallel to the load
  - Perpendicular to the load
  - Oblique to the load
  - None of the above
- Q.2 In horizontal reinforcement, how many strips of hoop iron are used for one header brick? (CO4)
- One
  - Two
  - Three
  - Four

- Q.3 Which type of foundation is used for the construction of building on black cotton soil? (CO3)
- Inverted arch foundation
  - Floating foundation
  - Mat foundation
  - Grillage foundation
- Q.4 A connection between a main wall and partition wall is termed as \_\_\_\_\_ (CO4)
- Bond
  - Joint
  - Junction
  - Bed
- Q.5 Chemically active pore fillers \_\_\_\_\_ the setting of concrete. (CO5)
- Retards
  - Decreases
  - Accelerates
  - No change
- Q.6 \_\_\_\_\_ is a flexible material and is placed on the bedding of concrete or mortar (CO5)
- Hot Bitumen
  - Mastic Asphalt
  - Metal Sheet
  - None of these

## SECTION-B

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

- Q.7 Granite is derived from argillaceous rocks. (True/False) (CO1)
- Q.8 A very hot and molten material found deep below the earth is known as \_\_\_\_\_. (CO1)
- Q.9 Define soffit for arches. (CO4)
- Q.10 The horizontal distance through which the excavated earth is to be taken is called \_\_\_\_\_. (CO3)
- Q.11 Define the term DPC. (CO5)
- Q.12 Shoring is employed to prevent a damaged structure due to \_\_\_\_\_ settlement. (CO3)

## SECTION-C

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

- Q.13 Write the describe the characteristics of a good building stone. (CO1)
- Q.14 Write and describe the various classification of kiln burnt bricks. (CO2)
- Q.15 Write the procedure for making the bathroom floors as water proof floors. (CO5)
- Q.16 Write the objectives of providing the foundations to the structures. (CO3)