

- 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)

No. of Printed Pages : 4
Roll No.

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