

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)

- 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)

- a) Inverted arch foundation
- b) Floating foundation
- c) Mat foundation
- d) Grillage foundation

Q.4 A connection between a main wall and partition wall is termed as _____ (CO4)

- a) Bond
- b) Joint
- c) Junction
- d) Bed

Q.5 Chemically active pore fillers _____ the setting of concrete. (CO5)

- a) Retards
- b) Decreases
- c) Accelerates
- d) No change

Q.6 _____ is a flexible material and is placed on the bedding of concrete or mortar (CO5)

- a) Hot Bitumen
- b) Mastic Asphalt
- c) Metal Sheet
- d) 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)