

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.3is 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.6Material 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.10is 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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