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First Semester B.Arch. Degree Examination, Dec.2016/Jan.2017
Materials and Methods in Building Construction - I

Time: 4 hrs.

Max. Marks:100

Note: Answer FIVE full questions, selecting at least ONE question from each module.

Module – 1

- 1 a. Explain manufacturing process of brick in brief. (08 Marks)
b. Write properties and uses of types of bricks as building materials. (12 Marks)

OR

- 2 Explain any 5 types of building components with sketches. (20 Marks)

Module – 2

- 3 What is bond in brick masonry? List types of bonds. Explain any four types with sketches. (20 Marks)

OR

- 4 Explain with sketch various types of stone masonries used in construction in India. (20 Marks)

Module – 3

- 5 Write short notes on :
a. Galax block b. Stabilized and blocks
c. Fly Ash Blocks d. Hollow a solid concrete blocks. (20 Marks)

OR

- 6 Explain Hallow and perforated by blocks. List properties uses and manufacturing process. (20 Marks)

Module – 4

- 7 a. What is Timber? List the types of wood. Explain. (06 Marks)
b. What is seasoning? Explain process of seasoning in brief. (14 Marks)

OR

- 8 Draw Trap sections through External and Internal load bearing wall having wall thickness 230mm. Assume details foundation in stone. (Hard strata) scale 1:10. Explain. (20 Marks)

Module – 5

- 9 Design a panelled a glazed door for a resident building. Assume size 1.2m×2.1m and wall thickness 230mm. Draw plan, elevation section to scale 1:10, and an important detail to 1:5 scale. (20 Marks)

OR

- 10 Design window for a Hall Room. Assuming size 1.5m × 1.8m with wall thickness 230mm. Draw plan, elevation and two details to 1:10 scale. (20 Marks)

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