

BUILDING MATERIALS & CONSTRUCTION

(Civil Engineering)

Time: 3 hours

Max. Marks: 70

PART – A
(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) What is meant by dressing of stones?
 - (b) Differentiate clamp burning and kiln burning.
 - (c) What are the functions of glass in buildings?
 - (d) How do you classify plastics?
 - (e) How do you select the insulating materials?
 - (f) What are the sound insulating materials?
 - (g) Compare the merits and demerits of flat and pitched roof.
 - (h) Mention different types of foundations.
 - (i) List out the various types of paints.
 - (j) What are the applications of paints?

PART – B
(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

- 2 (a) Explain quarrying of stones.
(b) What qualities in bricks are essentially required from construction point of view?

OR

- 3 Explain the brick manufacturing process in detail.

UNIT – II

- 4 (a) Explain the manufacturing process of glass.
(b) Write the advantages and disadvantages of glass.

OR

- 5 (a) How do you use plastics in buildings intelligent?
(b) Write the advantages and disadvantages of plastics.

UNIT – III

- 6 (a) What are the thermal properties of insulating materials?
(b) Explain in detail sound absorption and green insulation.

OR

- 7 (a) Explain reflective insulation system.
(b) Discuss on building insulation materials.

UNIT – IV

- 8 Name the various types of foundations generally used. Discuss the construction of spread footing.

OR

- 9 (a) Differentiate between English bond and Double Flemish bond with neat sketches.
(b) State various components of framed structure. Discuss functional requirement of super structure.

UNIT – V

- 10 (a) Discuss various types of pointing with neat sketches.
(b) Discuss the various types of construction joints.

OR

- 11 (a) What are the various ingredients paints? State functions of each of them.
(b) Discuss on various types of Varnishes and uses.
