

CBSGS

80 Marks

3 Hours

N. B. 1. Question no. 1 compulsory.

2. Answer any three questions out of remaining
3. Assume any data, if required and state them clearly
4. Attempt sub questions in order
5. Illustrate answer with neat sketches wherever required
6. Figures to the right indicate full marks.

1 Write short notes on any five :-

[20]

- a) Load Bearing and Frame Structure
- b) Flooring materials
- c) Pointing
- d) Grade of Cement
- e) Damp Proofing materials
- f) Acid test on stone

2. a) What are the objects of providing foundations to the structure? Explain combine footing with neat sketch. [5]

b) Explain the anti corrosive treatment provided to metals. Write the use of aluminium in construction industry [7]

c) Give the detailed sketch of $1\frac{1}{2}$ wall constructed in English bond and Flemish Bond [8]

3. (a) Mention experiments performed in laboratory on tiles and bricks? Explain any one experiment (either of brick or of tile) in detail. [7]

(b) Compare paints and varnishes. [5]

(c) What do you mean by seasoning of timber? Explain methods of seasoning of timber? [8]

4. (a) List out the various types of glasses and state their properties and uses in construction. [8]

(b) What is form-work? Which materials are used for form-work? State advantages and disadvantages of steel formwork. [4]

(c) Explain briefly the dry process of manufacturing of cement [8]

5. (a) Sketch the cross-section of Queen-post truss and name the various members in it. [6]

(b) Explain the field tests to find the quality of any two construction materials. [6]

(c) Sketch the cross-sections and elevations of: [8]

- (i) Putlog scaffolding
- (ii) Un-coursed Random Rubble Masonry.

6. (a) Define ventilation. Explain systems of ventilation [8]

(b) Write short notes on : [12]

(i) Plastering

(ii) Sound insulation

(iv) Hydraulic Lime

