

- Note:-
1. Question no. 1 compulsory.
 2. Answer any 3 questions out of rest
 3. If required, assume data but state them clearly
 4. Attempt sub questions in order
 5. Illustrate with neat sketches wherever required
 6. Figures to right indicate full marks.

1.
 - a) Comment, what will happen, if no foundation is provided to a building. [5]
 - b) State the advantages of dressing of stones. Explain with neat sketches, Boasted and Reticulated finish. [5]
 - c) Explain the following terms with sketches: [2*2]
 - (i) Queen Closer (ii) Through Stone
 - d) Define timber. Explain defects in timber with sketches. [6]
2.
 - a) Explain with neat sketch, under-reamed pile foundation. [4]
 - b) What is pointing? Enlist different types of pointing? Explain any 2 in detail [6]
 - c) State the functional requirements of flooring. Explain Rubber Flooring [6]
 - d) Draw neat sketch showing fixing details of 'AC sheets' [4]
3.
 - a) Explain the terms with a sketch: [6]
 - (i) Principal rafter (ii) Purlin (iii) Cleat (iv) Common Rafter.
 - b) Comment, if no bond is provided in masonry. Explain Flemish Bond. [6]
 - c) Explain lean to roof [4]
 - d) Explain defects in painting. [4]
4.
 - a) Write short notes on: [3*2]
 - (i) Prevention of accidents on site (ii) Storage of materials at site.
 - b) Write down the ideal requirements of a scaffold. Explain any one type of scaffolding in detail. [5]
 - c) Write short notes on [3*2]
 - (i) Glass cladding as an elevation (ii) Gypsum as an interior material
 - d) Enlist steps in manufacturing process of bricks [3]
- a) Write down engineering properties of [2*2]
 - (i) Plaster of Paris (ii) Plastic
 - b) Write short notes on: [3*2]
 - (i) Uses of non-ferrous alloys in construction. (ii) Form-work for beam.
 - c) Write short notes on: [3*2]
 - (i) Ceramic product (ii) Eco friendly materials
 - (iii) Glass fibre reinforced Plastic
 - d) Explain the following acoustical defects: (i) Echo (ii) Dead spots. [4]

[TURN OVER]

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6. a) Discuss in brief Humidity control and Temperature control with reference to comfort air conditioning. Also discuss the systems of air-conditioning [6]
- b) Compare: [3*3]
- (i) Stone Masonary and Brick masonry
 - (ii) Dry process and wet process of cement manufacturing
 - (iii) damp-proofing and water proofing
- c) State, in general, requirements of building materials and products [5]
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