

2024

**CONSTRUCTION MATERIALS**

*Full Marks : 100*

Time : Three hours

*The figures in the margin indicate full marks for the questions.*

*Answer any five questions.*

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|----|----|--|----|
| 1. | a) | How rocks formed? And give the classification of rocks.                                      | 10 |
|    | b) | Explain in details the different types of dressing of stone.                                 | 10 |
| 2. | a) | Explain in details how lime is manufactured?   | 10 |
|    | b) | How are lime classified?   | 10 |
| 3. | a) | Explain in details the manufacture of burnt clay bricks.                                     | 08 |
|    | b) | What are the characteristics of first class and second class burnt clay bricks?              | 12 |
| 4. | a) | With the help of flow chart diagram, explain how cement is manufactured by dry process?      | 12 |
|    | b) | What are Bogue's compounds?  | 08 |
| 5. | a) | Explain the process of seasoning of timber by<br>(a) Water seasoning and (b) Kiln seasoning. | 12 |
|    | b) | What are the characteristics of a good timber?   | 08 |
| 6. | a) | What is paint? And what are the functions of paint?  | 08 |
|    | b) | Depending on the constituents, how is glass classified?                                      | 08 |
|    | c) | Write the applications of plastics in construction?  | 04 |
| 7. | a) | Explain the manufacturing process of iron.   | 07 |
|    | b) | What are the properties of wrought iron?   | 05 |
|    | c) | Write short notes on:  | 08 |
|    |    | i. Heat insulation materials   |    |
|    |    | ii. Varnish  |    |