

306

October 2023

Time - Three hours  
(Maximum Marks: 100)

- (12)
- [N.B.]**
1. Answer all questions under Part-A. Each question carries 3 marks.
  2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

**PART - A**

1. Define Water absorption and Permeability.
2. List the constitution of glass.
3. Define Concrete and mention its uses.
4. List the materials used for damp proofing.
5. Write the formula for ultimate bearing capacity of soil and safe bearing capacity of soil.
6. Define bevelled closer with sketch.
7. What is transom and rebate in a door?
8. State the uses of thermal resistant.
9. What is meant by white washing and colour washing?
10. What is scaffolding?

[Turn over.....]

PART - B

11. (a) (i) Write short notes on first class bricks.(4)  
(ii) Explain the working operation of Hoffman's kiln construction with neat sketch.(10)

(Or)

- (b) Explain about BIS specification of physical and chemical properties of cement.

12. (a) Explain about constituents of concrete and their requirements.

(Or)

- (b) What are the types of timber? Explain.

13. (a) Explain the points to be considered in the construction of stone masonry.

(Or)

- (b) Explain the objectives and requirements of a good foundation.

14. (a) What are the types of stairs? Explain them with neat sketches.

(Or)

- (b) Explain the construction of tile roof and shell roof with neat sketches.

15. (a) What are the types of plastering? Explain.

(Or)

- (b) Explain about the post-construction methods of anti-termite treatment.

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