

1384

April 2025

Time - Three hours
(Maximum Marks: 100)

- [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. List the types of cement.
2. Write any three properties of good sand.
3. What is air-entraining admixture?
4. Mention the types of mix design method.
5. Write any three types of polymer concrete.
6. List the applications of light weight concrete.
7. List out the requirements of formwork.
8. Define prestressed concrete.
9. What are dowel bars?
10. List the causes of cracking.

[Turn over.....]

PART - B

11. (a) Explain about the production of concrete.
(Or)
(b) Describe the functions and properties of coarse aggregates.
12. (a) Write the procedure for design mix of concrete as per IS code method.
(Or)
(b) Explain about any three admixtures.
13. (a) Explain the types of materials used in light weight concrete.
(Or)
(b) Differentiate between the fibre reinforced concrete and polymer concrete.
14. (a) Explain the magneblon system with neat diagram.
(Or)
(b) Discuss about the cleaning and treatment of forms.
15. (a) Describe the types of joints used in concrete works with neat sketches.
(Or)
(b) Discuss the types of cracks in concrete structures. Also write about its assessment.
