

127

October 2023

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. Mention the uses of concrete.
2. Name the different tests to be conducted on hardened concrete.
3. Why admixtures are used for concreting?
4. What is concrete mix design?
5. Specify the materials used to prepare light weight concrete.
6. What is the role of fibers used in reinforced concrete?
7. Write the principles of pre stressing.
8. Define wedges.
9. What are the main causes of cracks in building?
10. Name any three materials used for carrying out repairs in concrete.

[Turn over.....

PART - B

11. (a) Explain the functions and properties of coarse aggregates.

(Or)

(b) Explain about types and production of concrete.

12. (a) Explain the purposes and objects of design mix.

(Or)

(b) Explain the classification of admixtures.

13. (a) Explain about polymer Concrete.

(Or)

(b) Explain the classification and characteristics of light weight concrete.

14. (a) Explain the various methods of pre stressing.

(Or)

(b) Explain about cleaning and treatments of forms.

15. (a) Explain the different types of cracks and its assessment.

(Or)

(b) Explain the methods of repairing concrete works.
