



PART B — (5 × 13 = 65 marks)

11. (a) Briefly discuss about the manufacturing process of concrete.

Or

- (b) Discuss in detail about the testing on fresh concrete with neat sketch.

12. (a) Describe the different types of bonds in brick masonry with sketches.

Or

- (b) What is scaffolding? Mention its various components and types.

13. (a) Explain the various types of sheet piles.

Or

- (b) Explain in detail about tunneling techniques.

14. (a) Explain the construction techniques for bridge decks.

Or

- (b) With a flow diagram explain the erection of articulated towers.

15. (a) Write in detail about the various factors to be considered in the selection of equipment for earthwork.

Or

- (b) What is meant by tunnelling? Explain the features of the equipment used for tunnelling operation.

PART C — (1 × 15 = 15 marks)

16. (a) What is coffer dam? With the help of sketches explain various types of coffer dam.

Or

- (b) In which situation pile foundation is adopted? Explain various types of pile foundation with neat sketch.