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[N.B. 1. Answer any fifteen questions under Part-A. All questions carry equal marks.(15 X 2 = 30)
  2. Answer all questions, choosing any two sub-divisions from each question under Part-B. All questions carry equal marks.(5 X 14 = 70) (7 + 7)]

PART- A

1. Write any two properties of timber.

2. Write any two uses of optical fibre.

3. Define concrete.

4. Mention any two physical properties of cement.

5. Draw the conventional symbol for pump and concrete.

6. What is plot coverage?

7. What is built-up area?

8. List out the types of building as per NBC.

9. Give any two basic requirements for good foundation.

10. What is stone masonry?

11. Write about roof covering.

12. What is plastering?

13. How do you measure whole circle bearing?

14. List any two applications of GPS.

15. Define contour.

16. What is offset?

17. Write about BRTS.

18. What is Green building?

19. List out the types of solid waste.

20. What is Heritage structure?

PART- B

21. (a) Discuss about any three disciplines of Civil engineering with examples.

    (b) Explain about any three types of Cement.

    (c) Elaborate the various properties of Concrete.

22. (a) Explain about National Building Code of India 2016 and its parts.

    (b) Discuss about various types of industrial buildings with examples.

    (c) Illustrate the various views in civil engineering drawings.

23. (a) Explain the various components of Paint.

    (b) Describe any three types of shallow foundation with neat sketch.

    (c) Explain about the types of bond in brick masonry with suitable drawings.

24. (a) Explain about different types of levelling.

    (b) Illustrate the various components of prismatic compass with neat diagram.

    (c) Explain reciprocal ranging with suitable diagram.

25. (a) Explain about solid waste management.

    (b) Explain about Rain water harvesting with neat sketch.

    (c) Discuss about Smart city and its features.