

656

Register No.:

April 2024

Time – Three hours  
(Maximum Marks: 100)

- [N.B.]
1. Answer any fifteen questions under Part-A. All questions carry equal marks.(15X2=30)
  2. Answer all questions, choosing any two sub-divisions from each question under Part-B. All questions carry equal marks.(5X14=70)(7+7)]

PART- A

1. Define Concrete.
2. What are the general uses of cement in construction?
3. Write the uses of Fly ash.
4. Define FRP.
5. Draw the symbol for Brick and Staircase.
6. Define FSI.
7. Define Setback.
8. What is carpet area?
9. Define Foundation.
10. What are the types of bond in brick masonry?
11. What are the types of roof covering materials?
12. List out the different types of flooring materials.
13. Write the fundamental principles of surveying.
14. What is Local attraction?
15. Differentiate perpendicular offset and oblique offset.
16. Define GIS.
17. What is solid waste management?
18. What are the advantages of Metro Transportation System?
19. Write short notes about Rain Water Harvesting.
20. What is smart city?

PART- B

21. (a) What is the scope and role of Civil Engineer?  
(b) Explain the properties of aggregates used in construction.  
(c) Explain about steel slag and copper slag.
22. (a) Explain about National Building Code 2016 and its parts.  
(b) Explain about the importance of Building bye-laws and its objectives.  
(c) Elaborate any seven types of public buildings.
23. (a) Write about any three types of shallow foundation.  
(b) Elaborate the functional requirements of the roof.  
(c) Explain about objectives of painting with its uses.
24. (a) Explain about the various classifications of surveying.  
(b) Differentiate prismatic compass from surveyor compass in detail.  
(c) Explain about various segments in GPS surveying.
25. (a) Discuss about the Mass Transport system.  
(b) Explain about Green buildings.  
(c) Explain about the Energy efficient buildings.

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