

April 2018**Time – Three hours**
(Maximum Marks: 75)

*(N.B: (1) Q.No. 8 in PART – A and Q.No. 16 in PART – B are compulsory.
Answer any FOUR questions from the remaining in each PART – A
and PART – B*

(2) Answer division (a) or division (b) of each question in PART – C.

*(3) Each question carries 2 marks in PART – A, 3 marks in Part – B and
10 marks in PART – C.]*

PART – A

1. Define a pile.
2. Define admixtures.
3. What is a prefabricated building?
4. What is the module for a wall?
5. List any two major earthquakes occurred in India.
6. What do you mean by demolition of buildings?
7. How structural cracks are formed?
8. What do you mean by property refurbishment?

PART – B

9. What is a composite member?
10. Describe the module for flooring scheme.
11. What are the requirements of an ideal structural joint?
12. List the points to be considered in emergency exit arrangement.
13. What are the causes of earthquake?
14. Briefly explain about repair to terrazzo flooring.
15. Describe about energy saving houses.
16. Briefly explain about lift modernisation.

[Turn over.....]

PART - C

17. (a) Explain in detail the pile load test with neat sketch.
(Or)
(b) Explain the Freyssinet system of pre-stressing with neat sketches.
18. (a) (i) Write short notes on modular coordination.
(ii) Explain about the different tolerances in prefabrication system.
(Or)
(b) State and explain the three important methods of prefabrication.
19. (a) Explain in detail the various types of fire protection system.
(Or)
(b) (i) Define any six technical terms used in earthquake.
(ii) Write short notes on seismic coefficient for different zones.
20. (a) (i) Describe the demolition process by using mechanical methods.
(ii) Explain the procedure to provide opening for fixing door in existing masonry.
(Or)
(b) List the methods of repairing cracks and explain any four methods in detail with sketches.
21. (a) List out the steps to be adopted while transforming from traditional style to modern style.
(Or)
(b) What are the steps to be followed in drafting a construction contract?
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