

**April 2019**

*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. Where do you about sheet piling?
2. Why high strength concrete and steel needed in pre stressing?
3. Define module.
4. What is a strong room?
5. Where escalators are used?
6. What do you mean by rehabilitation of buildings?
7. Expand UNECE.
8. Define earthquake.

**PART – B**

9. What is a pile cap and pile shoe?
10. What is guniting?
11. Explain the tolerance on dimension of flatness.
12. State any three main equipments required at the site of a pre fabrication project.
13. Briefly explain alarm system regarding fire protection.
14. Explain the transverse cracks in RCC slab and sunshade.
15. Describe the importance of catch plat form.
16. How will you strengthen the old buildings?

PART - C

17. (a) (i) State the uses of piles.  
(ii) Compare pre cast piles and cast in situ pile.  
(Or)  
(b) Explain pre tension method and post tension method.
18. (a) What are the advantages and disadvantages of pre fabrication system?  
(Or)  
(b) Explain the various stages of precasting and operations involved.
19. (a) (i) What are the precautionary measures to be taken to minimize dangers of fire.  
(ii) What are the factors to be considered in limiting fire spread.  
(Or)  
(b) List the points to be considered during construction of a framed building in earthquake zones.
20. (a) Describe the demolition process of trusses, girders and beams, walls and flooring.  
(Or)  
(b) (i) Write short notes on cracks in RCC beams.  
(ii) List the materials used for filling cracks.
21. (a) (i) Write about modular kitchen.  
(ii) Briefly explain about roof insulation.  
(Or)  
(b) (i) Describe the green building concept.  
(ii) Write short notes on B.E.R.

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