



- Notes : 1. Answer **three** question from Section A and **three** question from Section B.  
2. Illustrate your answer necessary with the help of neat sketches.  
3. Use of pen Blue/Black ink/refill only for writing the answer book.

**SECTION – A**

1. a) Explain significance of Advance construction Technique in construction Engineering and management? 6  
b) What are the various construction records required to manage construction project? 7

**OR**

2. a) What are the important items to be considered while preparing layout of site for large construction project? 6  
b) What are the various construction documents required to manage construction project? 7  
3. a) Explain the planning of Infrastructure facilities require for speedy implementation of project? 6  
b) Explain the importance of Advance construction techniques in maintaining quality in construction? 7

**OR**

4. a) Explain importance of soil properties while doing soil investigation for Earth works? 6  
b) Explain various Techniques for temporary ground water exclusion while doing excavation. 7  
5. a) Explain any one method in details for drilling holes for excavation? 7  
b) Explain in detail about Trenchless Technology for excavation. 7

**OR**

6. a) Discuss about excavation by blasting? 7  
b) Explain delay blasting for economy & effectiveness of blasting for excavation? 7

**SECTION – B**

7. a) What are the various types of concretes for different purposes? 6

- b) Explain the action of plasticizer in concrete with neat sketch? 7

OR

8. a) Explain advantages and disadvantages of Ready mixed concrete? 6

- b) Discuss various applications of Aerated concrete? 7

9. a) Discuss any one method of erection of large bridge? 6

- b) Explain in detail process of anticorrosive painting for steel structure? 7

OR

10. a) Explain importance of welding position & edge preparation in fabrication of steel structure? 6

- b) Explain various types of bonds in brick Masonry for cladding? 7

11. a) Explain various types of roof coverings with their advantages and disadvantages? 7

- b) Describe with neat sketch different types of shell roofs? 7

OR

12. a) What are the various advances in construction of Road Project? 7

- b) Explain importance of mechanized construction in today's world? 7

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