

M.E. First Semester (Civil Engineering (Construction Engg. & Manag.)) (CGS)
13065 : Advanced Construction Technique : 1 CM 04

P. Pages : 2

Time : Three Hours



AU - 3346

Max. Marks : 80

- Notes :
1. Answer **three** question from Section A and **three** question from Section B.
 2. Due credit will be given to neatness and adequate dimensions.
 3. Use of pen Blue/Black ink/refill only for writing the answer book.

SECTION - A

1. a) What are the considerations for selection of construction method and selection of construction equipment at preparatory stage ? 6
b) What is the role of transportation and handling in execution of project ? Explain with suitable example. 7

OR

2. a) What is the role of Advance Construction technique in project management ? 6
b) Explain the functions and principles of waterways and airways. 7
3. a) Why mechanized excavation is important in any project ? 6
b) What is grading ? Discuss various activities involved in earthwork for grading. 7

OR

4. a) What is dredging ? Explain various types of devices required for it. 6
b) Explain Trenchless technology. 7
5. a) Explain different types of drilling in details. 7
b) What are the different methods of pile driving and construction ? 7

OR

6. a) Explain excavation by blasting in detail. 7
b) What are the effects of blasting on environment ? 7

SECTION - B

7. a) Explain the action of plasticizer in detail with the help of neat sketch. 7
b) Explain briefly mechanization of concreting work. 7

OR

8. a) Explain Areated concrete and write down applications of it. 7
b) Describe in detail Schmidt's Rebound hammer test. Explain the relationship between rebound number and strength of concrete. 7
9. a) What are the properties of cladding materials ? State the names of different cladding materials. 6
b) Write a note on : 7
i) Erection of fabricated steel structure.
ii) Erection of precast concrete structure.

OR

10. a) Discuss the different methods of erection of bridges. State the conditions under which each type is used. 6
b) Explain significance of welding position and edge preparation in welding work for fabrication of steel structure. 7
11. a) Enlist types of scaffolding. Explain any one type in detail with neat sketch. 6
b) What is roofing ? What are the functional requirements related to roof and roofing ? 7

OR

12. a) What is formwork ? State two types of formwork and write advantages of permanent formwork. 6
b) Explain in detail various activities involved in finishing work. 7

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