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B.E. / B.TECH. DEGREE EXAMINATIONS, DEC 2019

Fifth Semester

CE16506 – CONSTRUCTION TECHNIQUES, EQUIPMENT AND PRACTICE*(Civil Engineering)***(Regulation 2016)****Time: Three Hours****Maximum : 100 Marks**Answer **ALL** questions**PART A - (10 X 2 = 20 Marks)**

	CO	RBT
1. Mention the Bogue's Compounds and its function.	1	R
2. What are the different types of test for cement.	1	R
3. Compare English Bond and Flemish Bond.	2	U
4. Mention any four types of scaffoldings.	2	U
5. Enlist different dewatering techniques.	3	R
6. Define caisson foundation.	3	U
7. What are the types of offshore platforms.	4	U
8. Define Bridges decks.	4	U
9. Write any four equipment used for earth moving operation.	5	R
10. Define dredging.	5	R

PART B - (5 X16 = 80 Marks)

11. (a) Explain the various steps involved in manufacturing of concrete. **(16)** **1** **U**
- (OR)**
- (b) Explain the test procedure of slump test and compaction factor test with neat sketch. **(16)** **1** **U**
12. (a) (i) What are the different types of deep foundations? **(4)** **2** **U**
- (ii) Explain the different types of shallow foundations with a neat sketch. **(12)** **2** **U**
- (OR)**
- (b) Describe briefly about the types of sloped roofs with neat sketch. **(16)** **2** **U**

13. (a) (i) Describe the pipe jacking process. (8) 3 U
(ii) Explain the various steps involved in pile driving process. (8) 3 U

(OR)

- (b) (i) Explain the types of sheet pile and list its functions. (8) 3 U
(ii) What is single stage well point and how does dewatering works? (8) 3 U

14. (a) Explain the construction techniques for launching of bridge decks. (16) 4 U

(OR)

- (b) What is meant by prestressed concrete and explain in detail about the various method involved in prestressing process. (16) 4 U

15. (a) Explain in detail about the equipment used for batching, mixing and placing of concreting work. (16) 5 U

(OR)

- (b) Explain the various types of the equipment used for the tunnelling operation. (16) 5 U