	F 12	V 19	1001 30 -	10 700	
Reg. No.:	la l				

Question Paper Code: 71580

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2017.

Fifth Semester

Civil Engineering

CE 6506 — CONSTRUCTION TECHNIQUES, EQUIPMENT AND PRACTICE

(Regulations 2013)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

PART A - (10 × 2 = 20 marks)

- 1. What does 33 grade cement refer to?
- 2. List any two durability properties of hardened concrete.
- 3. Why are construction joints provided?
- 4. What are slip forms?
- 5. What is meant by micro piling?
- 6. Define shoring.
- 7. Draw a sketch of formwork for shells.
- 8. What are the advantages of articulated towers?
- 9. How do you calculate the output of scraper?
- 10. List any two reasons for dredging.

PART B — $(5 \times 16 = 80 \text{ marks})$

 (a) What is the objective of curing? Explain the different methods of curing of concrete.

Or

(b) What is meant by Non-Destructive testing of concrete? What are its relative merits? Explain any one Non-Destructive testing method in detail. 12. (a) Compare brick masonry and stone masonry.

O

- (b) Explain in detail about
 - (i) Fire protection
 - (ii) Acoustic protection.
- 13. (a) Explain in detail about the under water construction methods.

Or

- (b) Define tunneling. Explain in detail about the different tunneling methods.
- 14. (a) Explain the construction techniques for bridge decks.

Or

- (b) With a flow diagram explain the erection of articulated towers.
- (a) How do you select equipment for earth work? Explain the types of earthwork equipments.

Or

(b) With sketch explain a typical batching plant.