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**Question Paper Code : 60246**

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2016.

Third/Sixth Semester

Civil Engineering

CE 2203/CE 36/CE 1204 A/080100011/10111 CE 601 — CONSTRUCTION  
TECHNIQUES, EQUIPMENT AND PRACTICES

(Regulations 2008/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List any four concrete chemicals.
2. What is the purpose of curing of concrete?
3. State the importance of providing expansion joint.
4. List any two fire proofing materials.
5. What are cofferdams?
6. What are sheet piles?
7. Why do we need special forms for shells?
8. What are the advantages of braced domes?
9. Give a list of equipment used for pile driving.
10. List any four types of compactors.

PART B — (5 × 16 = 80 marks)

11. (a) State the concepts of concrete mix design. Explain any two methods of concrete mix design.

Or

- (b) Describe the characteristics of concrete. Explain any two tests for testing the quality of hardened concrete.

12. (a) Describe the different types of bonds in brick masonry with neat sketches.

Or

- (b) Write a detailed note on the fabrication and erection of steel trusses.

13. (a) Explain the construction procedure involved in the sinking of cofferdams.

Or

- (b) Explain the construction procedure for driving diaphragm walls and sheet piles with neat sketches.

14. (a) Discuss in detail the process of launching girders and bridge decks.

Or

- (b) Explain the construction procedure for material handling and erecting light weight structural components on tall structures.

15. (a) Describe the factors influencing the selection of equipments for earthwork. Explain the types of earthwork equipments.

Or

- (b) Write a detailed note on:

(i) Equipments for material handling.

(2 × 8 = 16)

(ii) Equipments for dredging and tunneling.

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