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**Question Paper Code : 31198**

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2013.

Third/Sixth Semester

Civil Engineering

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

(Regulation 2008/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is batching of concrete?
2. Discuss on mix design concept as per BIS
3. Write short notes on expansion joints.
4. What is meant by slip forms?
5. Write a note on sinking coffer dam.
6. Enlist different de-watering techniques.
7. What is called an articulated structure
8. Write a short note on braced domes.
9. List out the different types of earthwork equipment.
10. When are the scrapers used?

PART B — (5 × 16 = 80 marks)

11. (a) Describe with neat sketches

- (i) Compacting
- (ii) Mixing.
- (iii) Transporting
- (iv) Placing of concrete.

(4 × 4 = 16)

Or

- (b) Discuss briefly on different non destructive testing techniques for checking quality of concrete.

12. (a) What are the different roofs finishes? Explain with neat sketches.

Or

(b) Briefly explain different types of stone masonry in building construction.

13. (a) Brief about different types of pilling techniques applied in the sub surface construction.

Or

(b) Describe with neat sketch about the underground open excavation.

14. (a) Discuss the process of in-situ pre-stressing in high rise structures.

Or

(b) Write detail note on

(i) Launching girders (6)

(ii) Bridge decks (5)

(iii) Off shore platforms. (5)

15. (a) Describe the equipments involved in the material handling and erection of structures.

Or

(b) Mention various types of equipments for dredging, trenching and tunneling.