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B.E./B.TECH. DEGREE EXAMINATIONS, MAY/JUNE-2011

REGULATIONS 2007

THIRD SEMESTER

**CE 1204 – CONSTRUCTION TECHNIQUES,
EQUIPMENT AND PRACTICES**

CIVIL ENGINEERING

Time: Three Hours

Maximum: 100 marks

ANSWER ALL QUESTIONS

PART-A (10×2=20 marks)

- Or
- (b) (i) Discuss in detail about the methodology (8)
for selection of construction equipment
for pile driving.
- (ii) Briefly explain the modern construction (8)
equipment used for tunneling.

1. Define seasoning.
2. Define pointing.
3. Distinguish between driven well and caisson.
4. What is meant by cofferdam?
5. State the concept of pre-stressing.
6. What are special forms for shells?
7. Expand AAR and ASR.
8. Define SIMCON.
9. List the equipments used for compaction?
10. List the equipments used for dewatering?

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PART-B (5×16=80 marks)

11. (a) (i) Explain with a sketch the method of (8)
construction of R.C.C Roof.
(ii) Explain with a sketch the method of (8)
prevention of dampness at the basement.

Or

- (b) (i) Explain with a sketch the shuttering for (8)
R.C.C Slab and R.C.C Beam.
(ii) What are different types of Scaffolding? (8)
Explain any one method.

12. (a) (i) Explain with a neat sketch the box (8)
jacking techniques.
(ii) Describe the different stages involved in (8)
construction of under reamed pile
foundation.

Or

- (b) (i) Explain in detail the construction (8)
procedure for well foundation.
(ii) Explain in detail the construction (8)
procedure for large reservoir with earth
system.

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13. (a) Discuss briefly the methodology for (16)
construction of off shore platform.

Or

- (b) Discuss briefly the in-situ pre-stressing (16)
construction methodology of high rise
structure.

14. (a) (i) Discuss briefly the modern construction (8)
sequences used for erection of chimney.
(ii) Discuss briefly the modern construction (8)
sequences used for erection of cable
stayed bridges.

Or

- (b) (i) Explain the classification of repair (8)
materials with selection criteria.

- (ii) Explain about ferroceement as (8)
rehabilitation material.

15. (a) (i) Discuss in detail about the methodology (8)
for selection of construction equipment
for earth work.

- (ii) Discuss in briefly the use of (8)

(i) Tractor.

(ii) Graders.

(iii) Earth movers.

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