

F 3101

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Reg. No.....

Name.....

**B.TECH. DEGREE EXAMINATION, NOVEMBER 2014**

**Third Semester**

Branch : Civil Engineering

**CONSTRUCTION ENGINEERING AND MANAGEMENT (C)**

(Prior to 2010 Admissions—Old Scheme)

[Supplementary/Mercy Chance]



Time : Three Hours

Maximum : 100 Marks

**Part A**

*Answer all questions.  
Each question carries 4 marks.*

Write short notes on :

1. Ready Mix concrete.
2. Shortcrete.
3. Pitched roofs.
4. White washing.
5. Site plan.
6. Building automation.
7. Earth moving equipments.
8. Soil compaction and stabilization.
9. Functions of PWD officers in planning constructions.
10. PWD contract documents.

(10 × 4 = 40 marks)

**Part B**

*Answer all questions.  
Each full question carries 12 marks.*

11. Distinguish between light weight and heavy weight concrete ? Compare and contrast their properties and applications.

Or

12. Explain Scaffolding. Where it is preferred ? Explain its features.

**Turn over**

13. What are the causes of damp in floors ? How damp-proof floors can be constructed and maintained ? Explain.

*Or*

14. Discuss the various repairs done in concrete during construction and also for the constructed structures.

15. Discuss the factors to be considered in the orientation of residential buildings.

*Or*

16. Describe the modern construction materials used and their merits.

17. Explain one method of calculation of earthwork for roads.

*Or*

18. (a) Describe the use of hoisting equipment in earth work.

(b) Explain the use of pile driving equipments.

19. Describe the PWD staff pattern. Explain the powers, functions and responsibilities in each level.

*Or*

20. Explain the PWD accounting system, describing the nature of the different head of accounts.

(5 × 12 = 60 marks)

