C14-C-**603**

4718

BOARD DIPLOMA EXAMINATION, (C-14)

JUNE-2019

DCE - SIXTH SEMESTER EXAMINATION

CONSTRUCTION TECHNOLOGY & VALUATION

Time:3 Hours Max.Marks:80

PART-A

10x3=30M

Instructions: 1) Answer all questions. Each question carries three marks.
2) Answers should brief and straight to the point and shall not exceed five simple sentences.

1) State ingredients of concrete.

2) Differentiate between ordinary concrete and controlled concrete.

3) State the need for expansion and construction joints in concrete.

4) List the losses of prestress.

5) State three objectives of formwork.

6) Define (a) Glare (b) Day light factor. 1½+1½

7) State uses of bull dozer.

8) Define (a) Magnitude (b) Intensity of earth quake. 1½+1½

9) State methods of valuation.

10 Define (a) Sinking found b) scrap value 1½+1½

PART-B

5x10=50M

Instructions: 1) Answer any five questions. Each question carries ten marks.
2) Answers should be comprehensive and the criterion for valuation is content but not the length of the answer.

11) Explain (a) Under water concreting (b) Hot weather concreting. 5+5

12) Explain procedure of concrete mix design using IS code method.

13) Explain in detail different types of prestressing .

14) Explain in detail the formwork for slab and beam system with a neat sketch. 5+5

15) Explain in detail the hot water supply distribution using solar water heating system.

16) Explain in detail various compacting equipment.

17) Explalin in detail the earthquake resistant design of stone masonry structures.

18) The total cost of a newly constructed building is Rs. 15,00,000/-.Find the depreciated cost of the building after 20 years, if the scrap value is Rs.1,20,000/-. Assume the useful life of building as 50 years and the rate of interest on sinking fund is 6%.

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