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BOARD DIPLOMA EXAMINATION, (C-14)
MARCH/APRIL-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) Answer should be brief and straight to the point and shall not exceed five simple sentences.

- 1) What is Concrete? List out the ingredients of Concrete.
- 2) List out any three factors influencing mix design of concrete.
- 3) Define Joint. List out the different types of joints in R.C.C.
- 4) Differentiate between pre-tensioning and post-tensioning.
- 5) State the different types of reinforcement used in R.C.C. as per I.S. code.
- 6) Mention any three uses of Dozers
- 7) List out any three requirements of good electrical wiring.
- 8) Differentiate between magnitude and intensity of an earthquake.
- 9) State any three purposes of valuation of buildings.
- 10) Write a short note on Sinking fund.

PART-B

5x10=50M

Instructions: 1) Answer any **five** questions. Each question carries **ten** marks.

2) The answer should be comprehensive and the criteria for valuation is content but not the length of the answer.

- 11) Write any ten functions of admixtures used in concrete.
- 12) Briefly explain about "Light weight" concrete and "shotcrete"
- 13) Explain briefly the requirements of steel and concrete used for prestressed concrete.
- 14) List out the merits and demerits of steel form-work over timber form work.
- 15) Explain clearly on-highway dump trucks and off-highway dump trucks.
- 16) a) Write six ways of reducing glare in a building. 4M
b) Explain plate earthing with a neat sketch. 6M
- 17) What are the general principles to be followed for earthquake resistant construction of buildings.
- 18) A residential building constructed 12 years ago is situated on a plot whose total area is 400 m². The plinth area of the building is 240 m². The cost of construction of the building was Rs. 1,30,000/- and the cost of the land is Rs. 180/m². The rate of depreciation for the value of the building is 1%. Calculate the total present value of the property.

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