



C14-C-603

4718

BOARD DIPLOMA EXAMINATION, (C-14)

OCT/NOV—2018

DCE—SIXTH SEMESTER EXAMINATION

CONSTRUCTION TECHNOLOGY AND VALUATION

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=30

Instructions : (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. Mention any three objectives of using admixtures in concrete.
2. What is meant by Fal-G concrete?
3. Name any three factors which influence the workability of concrete.
4. Write briefly about pretensioning system of prestressed concrete.
5. What are the precautions to be taken to avoid the failure of formwork?
6. Mention the purpose for which dozer is used. What are different types of dozer?

- * 7. Mention the purpose of air conditioning.
8. Differentiate between magnitude and intensity of an earthquake.
9. Define the terms (a) book value, and (b) scrap value.
10. A building of 200 sq. mt. plinth area is situated in a plot of 400 sq. mt. The building rent is ₹ 2,000 per month, cost of land is ₹ 1,000 per sq. mt. The total outgoings are 25% of gross income. Calculate capitalized value of the building for 12% net yield. Take life of the building as 60 years.

PART—B

10×5=50

Instructions : (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. Explain, in detail, various factors affecting the strength of concrete.
12. (a) Name different methods of curing of concrete and explain any one method in detail.
(b) Mention five advantages of fibre reinforced concrete.
13. (a) Write five advantages of prestressed concrete.
(b) Explain Freyssinet system of post-tensioning.
14. (a) State five functions of reinforcement in RCC.
(b) Mention five factors affecting the stripping time of concrete formwork.
15. (a) Mention five factors affecting selection of equipment and machinery.
(b) Explain, in detail, the term 'dredger'.

- * 16. What is the need for electrical earthing? Explain different types of earthing method with a neat sketch.
17. Explain, in detail, the general principles that should be observed during the construction of earthquake-resistant building.
18. What is depreciation? Explain any two methods of depreciation to estimate the depreciation of a property.

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