



C-14-C-603

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**BOARD DIPLOMA EXAMINATION, (C-14)
OCTOBER/NOVEMBER-2018
DCE– SIXTH SEMESTER EXAMINATION**

CONSTRUCTION TECHNOLOGY AND VALUATION

Time : 3 Hours]

[Total Marks: 80

PART-A

3X10=30

- Instructions :**
1. Answer **All** questions.
 2. Each question carries **Three** marks.
 3. Answer should be brief and straight to the point and shall not exceed five simple sentences.

1. Define workability. What are the factors influencing workability?
2. What are the types of admixtures? Mention any four objectives of using admixtures.
3. What are the methods of mix design?
4. What are the methods of tensioning? What is pre-tensioning systems of pre-stressed concrete?
5. Write any three objectives of form work.
6. State different types of concrete construction equipment.
7. State the requirements of good ventilation.
8. Define terms (a) Magnitude (b) Intensity (c) Energy release.
9. What is “sinking fund” and “Depreciation”?
10. What are the different methods of valuations?

PART-B

10X5=50

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

11. (a) Explain the “Normal concrete” and “controlled concrete”
(b) Different types of special concretes and what are the uses of fiber reinforced concrete?
12. (a) What are the methods of concreting under special exposure conditions?
(b) What are the different types of joints in concrete? Explain construction and expansion joints with sketches.
13. (a) Explain the Hoyer system of pre-tensioning with neat sketch.
(b) Write any four advantages of pre-stressing concrete.
14. (a) What are the steps to be taken to reduce the cost of form work?
(b) What are the advantages of medium strength deformed bars?
15. (a) What are the factors effecting selection of equipment?
(b) Explain any four equipment’s used for excavating of earth in construction works.
16. (a) What are the requirements of a good electrical wiring?
(b) What is the purpose of air conditioning?
17. (a) What are the general principles of earthquake resistant construction of buildings?
(b) Explain the failure of stone masonry structures during earthquake
18. A residential building constructed 10 years ago is situated on a plot whose total area is 400 m². The plinth area of the building is 200 sq.m. The present cost of construction of the building is Rs. 6,50,000-00. The cost of the land is Rs. 1200 per m² the rate of depreciation for the value of the building is 1%. Calculate the total value of the property.
