



C14-C-603

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**BOARD DIPLOMA EXAMINATION, (C-14)
MARCH/APRIL—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. What are the various methods of curing of concrete?
2. Mention three advantages of fibre reinforced concrete over ordinary reinforced concrete.
3. Why are joints provided in concrete construction?
4. Write any three advantages of pre-stressed concrete over ordinary reinforced concrete.
5. State the three requirements of formwork for concrete constructions.
6. Write any three advantages of belt conveyors.

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7. Name any ^{*} six parts in air-condition system.
8. How brick masonry buildings behave during earthquakes?
9. Define the following :
- (a) Book value
- (b) Market value
10. What is the purpose of sinking fund?

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 IS-10262-2009 method of mix design of concrete.
12. (a) Mention any five objectives of using admixtures to concrete.
- (b) What are the precautions to be taken in hot weather concreting?
- ^{*} 13. (a) Mention five losses of pre-stressing.
- (b) Explain briefly about Magnel-Blaton system of pre-stressing.
14. (a) Mention different types of failure of formwork and remedial measures to be taken.
- (b) Explain formwork arrangements for a column with neat sketch.
15. Explain in detail, the various concrete compaction equipments.

16. Explain hot water supply using solar water heating system by active solar heating system.
17. (a) What is the importance of seismic zoning?
(b) Write the salient features of earthquake resistance design as per IS-4326-1993 code.
18. Explain in detail the purpose of valuation of a property.

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