

6621

BOARD DIPLOMA EXAMINATIONS

OCT/NOV-2019

DCE – FIFTH SEMESTER

CONSTRUCTION TECHNOLOGY & PROJECT MANAGEMENT

Time: 3 hours

Max. Marks: 80

PART – A

3 X 10 = 30

- Instructions:**
1. Answer **all** questions.
  2. Each question carries **Three** Marks.
  3. Answer should be brief and straight to the point and should not exceed Five simple sentences.

1. State any three factors affecting the workability of concrete.
2. Write the need for use of machinery in construction.
3. Write the purpose of air conditioning.
4. State any three requirements of good electrical wiring.
5. Explain the need for construction management.
6. Explain about administrative approval of works.
7. List any three tender documents.
8. Write short note on imprest amount.
9. Mention various opportunities for civil engineers to become entrepreneur.
10. List any six assisting institutions which are meant for developing .

**PART – B**

**5 X 10 = 50**

- Instructions:*
1. Answer any **Five** questions
  2. Each question carries **TEN** Marks.
  3. Answer should be comprehensive and Criteria for Valuation is the content but not the length of the answer.

11. (a) State any four factors affecting variability of concrete strength.  
(b) Write in detail about [i] water curing. [ii] Membrane curing.
12. Explain
  - a) Light weight concrete.
  - b) The methods of concreting underwater.
13. Write the duties of Assistant Executive Engineer in state engineering Department.
14. a) Prepare a tender notice for the construction of a college building.  
b) Explain in detail about departmental execution of works.
15. a) What are the different types of contracts?  
b) Explain in detail about any two types of control.
16. a) Explain the need and method of quality control.  
b) State any five important instructions to be observed while preparing the muster rolls.
17. Explain the importance of measurement book and state any eight rules to be followed in recording Measurements.
18. a) State any four organizations / institutions assisting entrepreneurs.  
b) Explanation the assistance provided by any two organizations / institutions in the development of small scale industries.