C16–C–405

6428

BOARD DIPLOMA EXAMINATION, (C–16)

OCTOBER—2020

DCE—FOURTH SEMESTER EXAMINATION

CONSTRUCTION PRACTICE

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. List out component parts of a building.

2. Define :

(a) Ultimate bearing capacity

(b) Safe bearing capacity

3. State any four advantages of hollow concrete block masonry.

4. List out any six types of doors that are commonly used in buildings.

5. State the functions of ceiling.

6. Define the terms :

(a) Flight

(b) Pitch of staircases

7. List the requirements of good form work.

8. State the remedial measures to be taken to minimize the defects in plastering.

9. How the distemper is prepared for dry distempering?

10. Write a short notes on concept of green building.

PART—B

10×5=50

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

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

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

11. Explain the method of soil exploration by wash boring method with the help of neat sketch.

12. Draw the neat sketch of well foundation and explain the method of construction.

13. Explain the general principles to be followed during construction of stone masonry.

14. Draw the neat sketches of the following :

(a) Collapsible door

(b) Rolling steel shutter

15. *(a)* List out the classification of roofs. 2

(b) Draw a neat diagram of king-post truss and name the parts. 8

16. Explain :

(a) Tubular steel scaffolding

(b) Suspended scaffolding with neat sketches.

17. Describe the method of painting on wooden surface.

18. Explain the possible ways of energy management in buildings.

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BOARD DIPLOMA EXAMINATION, (C–16)

SEPTEMBER/OCTOBER - 2020

DCE—FOURTH SEMESTER EXAMINATION

CONSTRUCTION PRACTICE

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. State the classification of buildings as per NBC.

2. Differentiate between 'bearing piles' and 'friction piles'.

3. Define *(a)* frog and *(b)* course with respect to bricks.

4. List out any four functions of lintels.

5. State any six advantages of steel trusses.

6. Define the term 'curing'. List out various methods of curing the concrete.

7. State any four objectives of formwork.

8. What is plastering? State any four objectives of plastering.

9. Define termite proofing.

10. List out the objectives of building safety audit.

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. Describe the method of soil exploration by Auger boring with its advantages and disadvantages.

12. Explain the method of providing under-reamed pile foundation along with the situations where they are found to be more suitable.

13. Explain with comparison between stone masonry and brick masonry constructions.

14. *(a)* What are the common types and special types of doors? 6

(b) List out the fixtures and fastenings of doors and windows. 4

15. Explain the construction of cement concrete flooring.

16. Describe the method of brick layer's scaffolding with the aid of a sketch.

17. Explain the method of whitewashing for a new surface.

18. Define energy management. State the aims of energy management of buildings.

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