



c16-c-405

**6428**

**BOARD DIPLOMA EXAMINATION, (C-16)  
AUGUST/SEPTEMBER—2021  
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 the component parts of a building.
2. State any three effects of dampness at basement level.
3. List any three advantages pre-cast concrete masonry.
4. State any three functions of lintels.
5. State any three functions of roof.
6. What are the different types of stairs based on geometry?
7. State any three advantages of tubular scaffolding.
8. State any three objectives of plastering.
9. List the different types of pointing.
10. State any three objectives of green buildings.

\*

## PART—B

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

- 11.** State the rules for minimum depth, width of foundation and thickness of concrete bed for spread footing foundation. 10
- 12.** What are under-reamed piles? Explain the construction of under-reamed piles with the help of a neat sketch. 10
- 13.** Explain about the different types of ashlar masonry with help of sketches. 10
- 14.** Explain the following types of doors : 5+5  
(a) Panelled door  
(b) Collapsible door
- 15.** Explain with sketches (a) King post truss and (b) Queen post truss. 5+5
- 16.** (a) List the different types scaffolding. 2  
(b) Explain tubular scaffolding with a neat sketch. 8
- 17.** Explain the method of painting on new wooden surfaces. 10
- 18.** Define and explain building energy management system. 10

\*

★ ★ ★

\*