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III Semester Diploma Examination, April/May-2019

## CONSTRUCTION TECHNOLOGY

Time : 3 Hours ]

[ Max. Marks : 100

### PART - A

Answer any six questions. Each question carries 5 marks.

6 × 5 = 30

1. (a) Define bearing capacity of soil. 2  
 (b) List any three methods of improving the safe bearing capacity of soils. 3
2. Classify the various types of piles based on (i) Function, (ii) Materials. 5
3. Explain the following terms : 5
  - (a) Coping
  - (b) Corbel
  - (c) King closer
  - (d) Queen closer
  - (e) Stretcher
4. What are the effects of dampness in buildings ? 5
5. List the different types of windows used in Buildings. 5
6. Explain briefly the classification of roofs. 5
7. Explain with a neat sketch Mason's Scaffolding. 5
8. What are the objects of painting ? 5
9. Define : (a) Earthquake 5  
 (b) Ventilation in buildings.

**PART – B**

Answer any seven questions. Each question carries 10 marks.

$7 \times 10 = 70$

1. Explain the procedure for determination of safe bearing capacity of soils by plate load test. 10
2. (a) Explain Raft foundation with a neat sketch. 5  
 (b) What is the difference between a shallow foundation and a deep foundation ? 5
3. (a) Explain with a neat sketch English bond for  $1\frac{1}{2}$  brick thick wall. 5  
 (b) Explain with a neat sketch coursed rubble masonry. 5
4. Define partition wall. Write various requirements to be fulfilled by a partition wall. 10
5. (a) Explain with a neat sketch louvered door. 5  
 (b) Explain briefly different types of arches. 5
6. (a) State briefly requirements of a good stair case. 5  
 (b) Write a short note on Escalators. 5
7. (a) Differentiate between flat roof and pitched roof. 5  
 (b) Explain the method of laying marble flooring. 5
8. Explain with a neat sketch 10  
 (a) Lean to roof  
 (b) Coupled roof
9. (a) What are the advantages of Steel Scaffolding ? 5  
 (b) Explain briefly different methods of pointing. 5
10. Explain how post construction anti-termite treatment is carried out. 10

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