

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE, OCTOBER/NOVEMBER – 2018**

PRINCIPLES OF DESIGN

[Maximum Marks: 100]

[Time: 3 Hours]

PART-A

[Maximum Marks: 10]

(Answer *all* questions in one or two sentences. Each question carries 2 marks)

- I. 1. Define aerial perspective.
2. What are circulatory elements?
3. What is meant by datum?
4. What is optical illusion?
5. Name the general needs of man.

(5 x 2 = 10)

PART-B

[Maximum Marks: 30]

(Answer any *Five* of the following questions. Each question carries *six* marks)

- II. 1. Explain the planes used in architectural design.
2. Explain the nature of plan in architecture.
3. What is mean by symmetrical balance? Illustrate with a neat sketch of building.
4. Explain the ordering principles "Axis"?
5. Comment on figure-background relationship.
6. How do social conditions influence architecture of a period?
7. How did emotional needs of man influence architecture?

(5x 6 = 30)

PART-C

[Maximum Marks: 60]

(Answer *one* full question from each Unit. Each question carries 15 marks)

UNIT -I

- III. a. Explain the design element "line".
b. Explain the visual properties of form.

7

8

OR

- IV. a. What are the protective elements used in architecture? Briefly explain them. 7
b. Explain the Classical style in architecture. 8

UNIT -II

- V. Write short notes on
(i). Proportion (ii). Scale (iii). Rhythm. 15

OR

- VI. a. What is meant by character of a building? Explain functional character with examples. 7
b. Explain the ordering principles "symmetry" with the help of sketches. 8

UNIT -III

- VII. a. Write short not on
(i). Visual perception. (ii). Binocular vision. 7
b. Give some applications of optical illusions in visual perception. 8

OR

- VIII. Explain Gestalt's theories on visual perception-proximity, similarity and closure. 15

UNIT - IV

- IX . Explain the influence of climate on plan, protective elements and circulatory elements of a building. 15

OR

- X. a. How does topography of a place influence its architecture? 7
b. Explain how materials influenced architecture from the ancient period to the modern items? 8