

TED-[10] 3024
(REVISION-2010)

1A copy

Reg. No:.....

Signature.....

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE – APRIL- 2018

PRINCIPLES OF DESIGN

[Maximum Marks: 100]

[Time: 3 Hours]

PART – A

[Maximum Marks : 10]

Marks

I. Answer the following question in one or two sentences. Each question carries two marks

1. Write about circulatory elements in architecture
2. Differentiate between scale and proportion
3. Write about unsymmetrical balance
4. Brief about the effects 'binocular vision' in humans
5. Enlist the general Influences in architecture

(5x2 = 10)

PART – B

[Maximum Marks : 30]

II. Answer any five of the following questions. Each question carries six marks.

1. Explain the design element 'point'
2. Write about the 3 basic types of planes in a volume
3. Write about character of a building with examples
4. Brief about optical illusions and their inference in visual perception
5. Compare the principles Unity, Repetition and Rhythm in architecture
6. Explain how topography affects design formation
7. Write about the importance of concept in a design

(5x6=30)

PART – C

[Maximum Marks : 60]

Answer one full question from each unit. Each full question carries 15 marks

UNIT - I

III. Explain about following terms

- | | |
|------------------------|-----|
| a) Structural elements | (5) |
| b) Protective elements | (5) |
| c) Decorative elements | (5) |

OR

IV. Write about the major Historic styles in Architecture (15)

UNIT - II

V. Explain with sketches:

- a) Contrast (8)
- b) Hierarchy (7)

OR

- VI. a) Enlist the famous proportioning systems in architecture (5)
b) Explain the term Golden ratio, its origin and applications (10)

UNIT - III

VII. Write about the principles of 'Visual perception' (15)

OR

VIII. Explain in detail about:

- a) Figure/ground relationship (8)
- b) Colour vision (7)

UNIT - IV

IX. Explain the design methodology in architecture (15)

OR

X. Write about the influence of following factors in design process

- a) Climate (5)
- b) Nature (5)
- c) Materials (5)
