

THIRD SEMESTER DIPLOMA EXAMINATION IN ARCHITECTURE  
OCTOBER, 2012

PRINCIPLES OF DESIGN

[Time : 3 hours

(Maximum marks : 100)

PART—A

Marks

I Answer the following questions in one or two sentences. Each question carries 2 marks.

1. What is meant by order of architecture ?
2. Draw elevation of a building to illustrate occult balance.
3. "Vertical linear elements can be used to define transparent volumes of space".  
Give an example.
4. What is meant by figure-background relationship ?
5. Write an example for the influence of climate on architecture. (5×2=10)

PART—B

II Answer *any five* of the following. Each question carries 6 marks.

1. What is vault ? Explain usage of vaults over the period of history.
2. What are the properties of volume ?
3. Explain with sketches three ways by which contrast can be achieved in building design.
4. What is meant by associate character of building ? Explain.
5. What is meant by binocular vision ? Explain its role in architecture.
6. Explain how materials influenced the development of architecture.
7. Write short notes on :
  - (i) Circulation
  - (ii) Concept. (5×6=30)

## PART—C

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

## UNIT—I

- III (a) Explain the primary elements LINE and PLANE with respect to architecture. 12  
 (b) Define form. 3

OR

- IV (a) Explain role of function of building in evolution of forms. Give two examples from history. 4  
 (b) Explain importance of plan in architectural design. 11

## UNIT—II

V Explain with sketches :

- (i) Datum (iii) Hierarchy  
 (ii) Axis (3×5=15)

OR

VI Explain role of following principles to achieve good architectural composition :

- (i) Unity (iii) Rhythm  
 (ii) Proportion (3×5=15)

## UNIT—III

- VII (a) What is meant by aerial effect in visual perception ? 5  
 (b) Explain the following :  
 (i) Law of closure (ii) Law of similarity (2×5=10)

OR

VIII Write short notes on :

- (i) Optical illusion (iii) Law of proximity  
 (ii) Colour vision (3×5=15)

## UNIT—IV

- IX Explain the process of architectural design. 15

OR

- X (a) Explain how social conditions of man influenced the development of architecture over the period of history. 8  
 (b) Explain influence of economy on the development of architecture. 7