

THIRD SEMESTER DIPLOMA EXAMINATION IN ARCHITECTURE  
March 2013

**PRINCIPLES OF DESIGN**

Maximum Marks : 100

Time : 3 Hrs

**PART - A**

(Maximum marks: 10)

- I. Answer the following questions in one or two sentences. Each question carries two marks Marks
- 1 Differentiate between trabeated style of architecture and arcuated style of architecture
  - 2 What is meant by contrast of direction in architecture?
  - 3 Draw a neat sketch to exemplify the ordering principle of hierarchy
  - 4 What is meant by aerial effect?
  - 5 Write any two features of contemporary church design [5x2=10]

**PART - B**

(maximum marks : 30)

- II Answer any five of the following questions. Each question carries 6 marks
- 1 Plan is also known as invisible structure. Comment on the statement
  - 2 Draw the view of the Greek Doric Order and mark the parts
  - 3 Define proportion. Explain the role of proportion in a harmoniously designed and executed building
  - 4 Differentiate between visual scale and human scale
  - 5 What is meant by Binocular vision in visual perception?
  - 6 Explain with two examples how topography influenced the development of architecture
  - 7 Write on contemporary domestic architecture exemplifying influence of economy on architecture [5x6=30]

**PART - C**

(maximum marks : 60)

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

**UNIT I**

- III a What is meant by contemporary movement? Differentiate it from eclectism [5]  
b The framework of the modern building reflects the character of skeleton of the cathedral. Explain how the skeleton of the cathedral resembles the framework of modern building [5]  
c Explain the features of structural elements in contemporary architecture [5]
- OR**
- IV a Explain the characteristics of Roman and Gothic architecture [5]  
b A perspective view is the best means of visualization, other than the model of the building. Explain with examples [5]  
c Explain with sketches the design element PLANE [5]

**UNIT II**

- V a What is meant by CONTRAST in architecture? Explain contrast of treatment in detail [5]  
b The equilateral triangle has been accepted as a form with good proportions. Why? [5]  
c Explain the role of ORDER OF ARCHITECTURE as a proportioning system [5]
- OR**
- VI a Explain with sketches - RHYTHM and SYMMETRY as ordering principles [2x5=10]  
b What is meant by ASSOCIATED CHARACTER in architecture [5]

**UNIT III**

- VII a Explain with sketches illusion of weightlessness [5]  
b What is meant by illusion of plane dematerialization [5]  
c Explain with sketches correctional illusion [5]

**OR**

- VIII a What is meant by Gestalt principles of visual perception? Explain with sketches figure-ground relationship, principles related to goodness of figure and principles of grouping. [15]

**UNIT IV**

- IX a Explain how interest of man influenced features of Victorian house [5]  
b Explain how materials influence the development of architecture [5]  
c Explain how personality of people influenced the development of architecture in Greece [5]

**OR**

- X Explain the process of design in architecture. [15]