

DESIGN FUNDAMENTALS (AR-101)

Time: 3 Hours

Full Marks: 70

Answer to Question no. 1 and any other five questions.

Neat appropriate sketches will be given due credit.

1. Fill in the gaps with appropriate word / words: — 1 x 10
 - (i) _____ relates to the sense of temperature each colour imparts, and it refers to the relative warmth or coolness, degree of hotness or coldness of any colour.
 - (ii) Design may be said to be a _____ attitude that fulfils its purpose.
 - (iii) In three dimensional composition, one deals with a series of systems of _____ relationships.
 - (iv) Natural forms are _____ diagram of internal and external forces in the environment.
 - (v) Our interpretation of space depends on the _____ themselves, not on the particular method that is used to organize them.
 - (vi) The apparent _____ of a figure, which is due to our projection of gravitational pull, also affects its position in a visual field.
 - (vii) The horizon is always at our own _____ level.
 - (viii) The most common example of colour wheel is _____.
 - (ix) Until there is _____, there will be no visible form.
 - (x) We see through the eyes, but we perceive with the _____.

2.
 - (a) Explain the process of perceiving the spread and depth of a visual field. 6
 - (b) With the aid of examples, illustrate how are the ideas of “change” and “time” involved with “movement in visual design”. 6

3.
 - (a) Define the term “balance in visual design”. 2
 - (b) Classify balance and explain the different types. 10

4. Compare additive and subtractive colour systems. How do you propose controlling hue of pigments? 4 + 8

5.
 - (a) What do you understand by the term “colour relationships”? 3
 - (b) Explain the term “simultaneous contrast”. How does one bring “intensity contrast” between complimentary and near-complimentary hues of different intensities? 5 + 4

6.
 - (a) What form will “streams of sand” take, if they are allowed to fall from one’s hand? How will it be different if the material is “pieces of wood” instead of “streams of sand”? What is the reason of this difference? 1 + 1 + 2
 - (b) Explain with illustrations the difference between working with a homogeneous material and that with assembled ones. 8

7. (a) While undertaking a design assignment, which amongst “form” and “function” you would prefer? Justify with examples. 6

(b) Discuss the steps that one should follow while undertaking an architectural design problem. 6

8. Write short notes on the following: 6 x 2

(a) Atmospheric perspective;

(b) Effect of light on 3-D modelling.
