

Bachelor of Architecture First Year First Semester

Supplementary Examination- 2023

DESIGN FUNDAMENTALS

Time: Three hours

Full marks: 100

Answer any FIVE questions. All questions carry equal marks.

Blank pages left unnecessarily in the answer script will be discredited.
Answers to a question/ or part of it shall not be split across the answer script.

1. Explain how we can tell if a design fulfills its purpose. Give examples with sketches. (20)
2. Describe the four qualities of perception of light as well as that of reflecting surfaces. Compose abstract designs in suitable formats for each of the qualities to support your answer. (6+6+8 = 20)
3. Explain the meaning and application of 'Dynamic values in our visual field' in design. Using a 10.5 x 17 cm ground, make a composition employing radial balance. (10+10 = 20)
4. Write short notes on (with sketches):
 - a. Occult rhythm
 - b. Eye movements in design
 - c. Spatial grouping
 - d. √Root-five rectangle(5 x 4 = 20)
5. Construct a Golden-mean rectangle geometrically, clearly showing the steps involved. Express the arithmetic significance of the golden ratio. Prepare a coloured composition with the golden-mean rectangle, highlighting its key features. (5+5+10 = 20)
6. Explain the different colour schemes substantiated with coloured graphics. Elaborate the application/s of each scheme in architectural design with suitable sketches. (10+10 = 20)