MANIPAL UNIVERSITY

SECOND SEMESTER B. DES. (FD) DEGREE EXAMINATION – JULY 2017

SUBJECT: BFD 106 – DESIGN PROCESS

Wednesday, July 12, 2017

Time: 10:00 – 13:00 Hrs.   Max. Marks: 50

✍ **Answer any FIVE complete questions.**

1.   Explain briefly:
1A. Scale and Proportion
1B. Inherent constraint
1C. Throwaway Prototype
1D. Ergonomics
1E. Form and function

                                                                                        (2 marks × 5 = 10 marks)

2A. What is design? What are the elements of design?
2B. Explain the strategies to be considered in making a model.

                                                                                        (5 marks × 2 = 10 marks)

3.   Design a back pack for a 4 – 6 yr. old, with the theme 'Lollipops'.
     Work out the following steps:
3A. Create a Mind Map
3B. List Concepts and define form.
3C. List the End User constraints.
3D. Illustrate, write notes and explore 4 designs, keeping in mind B and C.
3E. Illustrate one design with views. Write in a few words how the design has been inspired by
     the theme.

                                                                                        (2 marks × 5 = 10 marks)

4A. Describe the five aspects to be considered in Definition and Modelling stage.
4B. Illustrate and explain the five properties of a good gestalt.

                                                                                        (5 marks × 2 = 10 marks)

5.   Explain the following:
5A. SCAMPER
5B. Inspiration
5C. The Tailor's Rule
5D. Balance as a principle of design
5E. Hue and Intensity

                                                                                        (2 marks × 5 = 10 marks)

6A. Illustrate and explain four methods by which Rhythm and Movement is achieved.

                                                                                                                (5 marks)

6B. Explain the following stages of design process:
     i)   Identification
     ii)   Conceptualization
     iii) Exploration/ Refinement
     iv)   Communication
     v)   Production

                                                                                        (1 mark × 5 = 5 marks)