

MANIPAL ACADEMY OF HIGHER EDUCATION**FOURTH SEMESTER B.DES. (FD) DEGREE EXAMINATION – APRIL 2018****SUBJECT: BFD 204 – FABRIC PROCESSING AND SURFACE DESIGN – I**

Wednesday, April 18, 2018

Time: 14:00 – 17:00 Hrs.

Max. Marks: 50

✍ Answer any FIVE complete questions.

- 1A. Explain the method of direct dyeing on cotton.
- 1B. What are the different fixation process used in Printing?
- 1C. Explain the classification of dyes.
- 1D. Explain the common causes of dyeing defects along with remedies.

(2+2+3+3 = 10 marks)

- 2A. Explain the mechanism and application for natural dyes.
- 2B. Define calendaring. Explain the types.

(5+5 = 10 marks)

- 3A. What do you understand by warp and duplex prints?
- 3B. Explain the principle of water repellent finishes on textile goods and write its uses.
- 3C. What are the objectives of scouring and discuss the procedure of J box method used for scouring.

(4+3+3 = 10 marks)

- 4A. What is the process used in heat transfer printing? Explain its types.
- 4B. Explain any one yarn and one fabric dyeing machinery with proper sketches that is used in dyeing.

(5+5 = 10 marks)

- 5A. What are the auxiliaries used in polyester dyeing?
- 5B. What do you understand by roller printing?
- 5C. Define sanforization.
- 5D. Elaborate reasons behind fabrics shrinking while laundering.

(2+3+2+3 = 10 marks)

6. **Explain the following terms:**

- 6A. Resist print
- 6B. Mechanism of fire repellent finish
- 6C. Sanding and sueding
- 6D. Anti-bacterial finish
- 6E. Batik printing

(2 marks × 5 = 10 marks)

