

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)

