PRINCIPLES OF TEXTILE WET PROCESSING

Date: 25.12.2016       Marks: 100       Time: 2pm to 5 pm

Instructions: 1. Attempt SIX questions out of which Q1 is Compulsory
2. Answer each next question on new page
3. Figures to the right indicate full marks
4. Illustrate your answers with sketches and flow chart wherever necessary
5. Use of nonprogrammable electronic pocket calculator permissible
6. Mobile and any other communication devices are not allowed in the exam hall
7. Assume suitable data wherever necessary

Q1 Answer in Two Lines
i What is fibroin? 02
ii What is isoelectric point? 02
iii What is hydrophobicity? 02
iv What is resist style printing? 02
v What is mercerization? 02
vi Explain colour fastness to perspiration 02
vii What are easy care properties? 02
viii Explain mordents. 02
ix What is covalent bonding in textile polymer? 02
x Explain discharge printing. 02

Q2 Discuss the de-sizing process of the textile fabric. Explain the significance of the process in effluent loading. 16

Q3 a. Give an account of classification of dyes as per the dyeing methods 08
b. Discuss the dyeing of silk using acid dyes 08

Q4 a. Explain the importance of bleaching of cotton and discuss the oxidative bleaching of silk 08
b. What is scouring? Discuss the scouring of cotton by different methods.

Q5
a. Give an account of HTHP dyeing of polyester using disperse dyes.

b. Compare the carrier dyeing of polyester with that of HTHP dyeing using disperse dyes.

Q6
a. Describe different types of gums used in printing.

b. Give an account of various additives used in the print paste preparation.

Q7
a. Explain direct style printing of cotton fabric using flat bed.

b. Discuss the fixation of print using steam. List the types of steam chambers employed.

Q8

b. What are calendaring and decatizing processes? Explain their relevance in finishing.