

CBCS SCHEME

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18TX54

Fifth Semester B.Tech. Degree Examination, July/August 2021 Chemical Processing of Textiles - III

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

1. a. What do you mean by 'Printing' of Textiles? How does it differ from dyeing? Describe different methods of printing. (10 Marks)
b. State of function of thickness in printing. Give the classification of thickness and give their suitability for printing of different type of fibres. (10 Marks)
2. a. List the essential ingredients used in print paste preparation and give their functions in printing. (10 Marks)
b. Write a note on selection of dyes and pigments in printing of Textiles. (10 Marks)
3. a. Name different styles of printing. Describe Resist style of printing and different resisting agents used. (10 Marks)
b. Explain how hand screen printing is done? With the help of a neat diagram, explain the working of automatic flat screen printing machine. (10 Marks)
4. a. Draw a neat diagram and explain the working of Rotary Screen printing machine. (10 Marks)
b. Discuss different types of Squeegee Systems used in rotary screen printing machine. (10 Marks)
5. a. Explain different methods of transfer printing. (10 Marks)
b. With the help of a neat diagram, explain the working principle of vacuum transfer printing system. (10 Marks)
6. a. State the necessity of ageing and steaming of printed goods. Explain the working of a continuous steaming drying and curing system. (10 Marks)
b. Describe the selection of paper and paper quality requirements for transfer printing. (10 Marks)
7. a. State the objects of finishing of textile goods. Write a brief note on Shrinkage of cotton fabrics. (05 Marks)
b. Explain the Sanferising Anti-Shrink finish to cotton fabrics. (10 Marks)
c. Describe the Anti-Shrink finish of viscose rayon fabric by chemical methods. (05 Marks)
8. a. What is Calendaring? Explain different types of calendaring machines and give their merits and demerits. (10 Marks)
b. What is Felting of Woolen materials? Describe the milling of woolen fabrics by Stock milling process and Rotary milling machine. (10 Marks)
9. a. Explain in detail heat setting of Synthetic fabrics. (10 Marks)
b. Explain the following : i) Anti – Static finish ii) Soil – release finish. (10 Marks)
10. a. With the help of a schematic diagram, explain the principle of color measurement by Spectrophotometer. (10 Marks)
b. Describe the evaluation of colour by Kubelka – Munk analysis. Draw the flow chart to show the sequence of colour matching computation. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.