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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 Calendering? 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)