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Sixth Semester B.Tech. Degree Examination, July/August 2022 Knitting and Non – Woven Technology

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. Discuss the scope and position of Knitting Industries in India. (10 Marks)
- b. State the principles of Knitting Technology. (10 Marks)

OR

- 2 a. Compare the Warp and Weft Knitted structures and Machineries. (10 Marks)
- b. Describe the production of Rib Knitted structures. (10 Marks)

Module-2

- 3 a. With neat sketches, explain briefly Knit, Tuck and Float stitches. (10 Marks)
- b. Explain the effect of Tuck and Float stitches on Knitted Fabrics. (10 Marks)

OR

- 4 a. Explain the Ornamentation of Weft Knit structures. (10 Marks)
- b. Compare the flat and circular Knitting machines. (10 Marks)

Module-3

- 5 a. Explain the derivatives of Plain and Rib structures. (10 Marks)
- b. Give the different types of positive feeds and their advantages. (10 Marks)

OR

- 6 a. Write a note on the following :
i) Knitted Fabric geometry ii) Tightness factor. (10 Marks)
- b. State the properties of Hosiery yarns. Give the various defects in Weft knitted fabrics. (10 Marks)

Module-4

- 7 a. Describe the various methods of Web preparation. (10 Marks)
- b. Explain the production of Parallel, Cross – laid and Random laid Webs. (10 Marks)

OR

- 8 a. Compare the dry method and wet methods of Non – Woven manufactures. (10 Marks)
- b. Explain the methods of Wet Web laying. Give the concept of drift deposition. (10 Marks)

Module-5

- 9 a. Explain the properties desired in binder for chemical bonding of non - wovens. (10 Marks)
- b. Explain the following : i) Saturation bonding ii) Spray bonding. (10 Marks)

OR

- 10 a. Explain the various methods of Adhesive bonding. (10 Marks)
- b. Give the application of Non – Wovens in various fields. (10 Marks)