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Fifth Semester B.Tech. Degree Examination, July/August 2021

Weaving Technology - III

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

1. a. Compare Tappet, Dobby and Jacquard. What are Positive Dobbies? Explain any one positive dobbie with the help of a sketch. (10 Marks)
- b. Select a suitable design for toweling fabrics. Draw a design, denting order and peg plan. Prepare the lattice using the above design for left hand dobbie. (10 Marks)
2. a. Explain Rotary dobbie principle. Discuss the working of Rotary dobbie with the help of a sketch. State its advantages. (10 Marks)
- b. List the reasons for Jack missing and give the timings of Climax dobbie. (10 Marks)
3. a. Discuss the functions of Cylinder, Pattern card and Harness on Jacquard loom. (10 Marks)
- b. Give the characteristics of Double lift, Double cylinder Jacquard. Explain the working of Double Lift double cylinder Jacquard, with the help of a sketch. (10 Marks)
4. a. Give the constructional features of Verdol Jacquard. Explain the working of Verdol JQ, with the help of a sketch. (10 Marks)
- b. Why Single lift single Jacquards are not advantageous? Explain. Give the principle of Cross border Jacquard and the fabrics produced on cross border Jacquards, with the help of a sketch. (10 Marks)
5. a. Discuss the developments in Mechanical Jacquard. Explain the working of Mechanical Jacquard. (10 Marks)
- b. Give the preliminaries to Jacquard card cutting. Briefly explain Card cutting operations. (10 Marks)
6. a. How Electronic Jacquards are useful? List the stages of shedding operation in Grosse Jacquard. (10 Marks)
- b. Explain London and Norwich system of Jacquard Ties with the help of a sketch. Give the comparisons. (10 Marks)
7. a. Why Better Weft Insertion methods compared to conventional shuttle looms are preferred. Give reasons. (10 Marks)
- b. Discuss some important aspects to be considered, while deciding the unconventional looms. Give the technical and economical aspects considered while installing the shuttle less looms. (10 Marks)
8. a. Give the salient features of Projectile looms. List out the fabrics produced on Projectile loom. (10 Marks)
- b. What are Weft Accumulators? How they are advantageous? Explain how Tuck-in selvages are produced. (10 Marks)
9. a. List Air Quantity, Quality and Piping arrangement to weave successfully on Air Jet Loom. (10 Marks)
- b. Explain with the help of a sketch, the method of Manufacture of circular fabric on Ancient Foyalle loom. (10 Marks)
10. a. What are Multiphase looms? Explain the Weft Insertion method on flat multiphase loom. (10 Marks)
- b. Give the criterias to be considered while designing the plant layout for loom shed. Discuss the importance of ventilation and humidification. (10 Marks)