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Fourth Semester B.Tech. Degree Examination, July/August 2022 Weaving Technology - II

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. With a neat diagram, explain the passage of material through plain power loom. (10 Marks)
- b. Briefly explain the working of negative Tappet shedding mechanism with a line diagram. (10 Marks)

OR

- 2 a. Briefly explain the factors and essential data required to be considered while constructing a tappet for negative Tappet shedding mechanism. (10 Marks)
- b. Explain the following : i) Early and late shedding ii) Heald Reversing mechanism
iii) Shedding motion principles iv) Reed , Reed count and heald , heald count. (10 Marks)

Module-2

- 3 a. What is Picking? State the objectives of picking and mention essential features of a good picking. (10 Marks)
- b. Briefly explain cone under pick mechanism with a line diagram and setting points. (10 Marks)

OR

- 4 a. Briefly explain Side lever lender – pick mechanism with line diagram. (10 Marks)
- b. What is Beat – up? State the function of Beat – up mechanism and explain sley eccentricity ratio ‘e’. (10 Marks)

Module-3

- 5 a. Briefly explain Positive Take – up motion with the help of gearing diagram. (10 Marks)
- b. Briefly explain Worm Wheel take – up motion with a neat gearing diagram. (10 Marks)

OR

- 6 a. What is Let – off Mechanism? State the functions of Let – off and with a neat line diagram, explain Negative Let – off Mechanism. (10 Marks)
- b. Briefly explain Automatic (Roper) Let – off motion, with a line diagram. (10 Marks)

Module-4

- 7 a. What do you mean by Auxiliary motions of Weaving? State objectives and necessity of Auxiliary motions of weaving. (10 Marks)
- b. Briefly explain Construction and working of Loose reed wrap protector, with a line diagram. (10 Marks)

OR

- 8 a. Explain Construction and working of side weft fork motion, with line diagram. (10 Marks)
- b. Describe important points to be considered while setting the weft fork mechanism. (10 Marks)

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.

Module-5

- 9 a. State the objective of Multiple Box motions and briefly classify them. (10 Marks)
b. Briefly explain the construction and working of Mechanical Weft feeler mechanism. (10 Marks)

OR

- 10 a. Briefly explain different types of material handling equipments, with a line diagram. (10 Marks)
b. Explain the following :
i) Temples.
ii) Weaving plant layout.
iii) Management of loom shed.
iv) Ventilation , Humidification and Lighting. (10 Marks)

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