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JAYA GROUP OF INSTITUTIONS –THIRUNINRAVUR

4TH SEM - B.E / B.Tech

INTERNAL ASSESMENT - 3 (MODEL EXAMINATION –III)

Subject Name: Technology of Woven Fabric Manufacture

Date : 11/04/2015

Subject Code: TT 6404

Branch: Textiles

Duration : 180 Minutes

Max.Marks:100

Part A (10 X 2 = 20)

1. What are the yarn quality parameters required for weaving process?
2. Enlist the different methods of weft insertion.
3. List the sheds formed by various types of jacquard.
4. Distinguish positive and negative shedding.
5. Compare airjet and water jet weaving.
6. What do you mean by multi-phase weaving?
7. State the importance of selvedge in a fabric. Furnish its types.
8. State the importance of multiple box motion.
9. Why loom monitoring is required for a loom shed.
10. Enlist the fabric defects.

Part B (5 X 16 = 80)

11. (a) i. Explain the detail with neat sketch about working principle of power loom. (13)
- ii. Write short note on warp and weft preparation for high speed shuttleless looms. (3)

OR

- (b) i. Explain in detail with diagram about powerloom driving. (8)
- ii. Discuss about yarn quality requirements for high speed automatic shuttleless looms. (8)

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12. (a) With a neat diagram explain the working of a cross border dobby.

OR

(b) Explain the working mechanism of double lift, double cylinder jacquard with diagram.

13. (a) Elaborate in detail the mechanism of weft insertion and selvage formation projectile looms.

OR

(b) i. Compare 4-lever and 6-lever beat-up mechanism. (8)

ii. With a neat sketch explain beat up mechanism used in modern looms. (8)

14. (a) Explain with a neat sketch pirn changing mechanism in autolooms.

OR

(b) write short notes on:

- i. Three try motion (4)
- ii. Quick Style Change (4)
- iii. Drop box motion (8)

15. (a) Write note on,

- i) Techno economics of shuttleless looms. (8)
- ii) Fabric defects and value loss. (8)

OR

(b) i. What are the causes and remedies for controlling the loom stoppages and efficiency in a shed - Explain. (8)

ii. Explain any one of principles and mechanism involved in producing pile fabric with an example. (8)