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JAYA GROUP OF INSTITUTIONS

Department of Textile Technology

B.Tech – II Year – (INTERNAL ASSESSMENT - I) - Model Exam – I

TT6404 – TECHNOLOGY OF WOVEN FABRIC MANUFACTURE

Max. Marks: 100

Date: 02/02/2015

Time: 180 Minutes

Part A

(10 X 2 = 20)

1. What are the essential motions of a loom?
2. List any four auxiliary motions of a loom.
3. What are the yarn quality parameters considered for weaving process?
4. Distinguish power loom and hand loom process.
5. Warp let-off and take-up motions are essential for a weaving process, justify?
6. Enlist the different types of shedding mechanisms.
7. What are the limitations of a tappet shedding over dobby shedding mechanism?
8. Compare positive and negative shedding.
9. Write short note on hand of a dobby.
10. List the sheds formed by various types of jacquard.

Part B

(5 X 16 = 80)

11. (a) Explain in detail about the principle and passage of yarn through a powerloom with a neat sketch.

OR

- (b) Discuss in detail the warp and weft preparation suitable for high speed shuttleless looms.

12. (a) Give an account on the quality requirements of warp yarns for shuttleless looms.

OR

- (b) With a neat diagram explain about plain power loom driving.

13. (a) Write short notes on the following:

- i. Principle of weaving with hand loom. (6)
- ii. Functions of primary, secondary and tertiary motions in a loom. (10)

OR

(b) Explain in principle the difference between negative and positive cam shedding.

14. (a) Explain the working principle of a climax dobby with peg plan.

OR

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

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

OR

(b) Write short notes on the following:

- i. Pegging of lags for different hand of dobby. (10)
- ii. Compare different types of sheds. (6)

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