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Total Pages : 3

**Third Semester
Textile Technology
Scheme July 2008**

INTRODUCTORY WEAVING - 302

Time : Three Hours

Maximum Marks : 100

- Note :** i) Attempt total six questions. Question No. 1 (Objective type) is compulsory. From the remaining questions attempt any five.
ii) Give sketch wherever necessary.

- i. Choose the correct answer : 2 each
- i) In which of the following shed, to form a top shed, it is necessary to move some threads through a space equal to twice the depth of the shed
 - (a) Centre closed shed
 - (b) Bottom closed shed
 - (c) Semi open shed
 - (d) None of the above
 - ii) What will be the number of ends per inch in a reed of 3/80's stockport
 - (a) 40 ends
 - (b) 80 ends
 - (c) 100 ends
 - (d) 120 ends
 - iii) The amount of eccentricity in the sley's motion depends upon
 - (a) Length of crank
 - (b) Length of crank arm
 - (c) Only (a), not (b)
 - (d) (a) and (b) both
 - iv) In which of the following wheel (s) is/are changed to get the required picks per inch in seven wheel take-up motion
 - (a) Standard wheel
 - (b) Change wheel
 - (c) (a) and (b) both
 - (d) None of the above

- v) The buffer is used as
- (a) To reduce the velocity of the shuttle
 - (b) Shock absorber for the picker
 - (c) To operate fast-reed warp protector mechanism
 - (d) All of the above
2. a) Describe the various types of shed used in weaving. Give their advantages and disadvantages.. 12
- b) Explain importance of dwell. 6
3. a) What is the function of picking motion on power loom? How many types of picking motions are used on power loom? Describe any one with suitable sketch. 12
- b) What are the defects in Over pick motion? 6
4. a) How the loom stops when the weft on the shuttle bobbin is exhausted? 12
- b) What are the Conditions to good let-off motion? 6
5. a) Explain the importance of negative let-off motion with its mechanism during weaving on loom? 12
- b) What are the function of temples and also explain types of temples used on power loom? 6
6. a) Find out the count of yarn in which the Ne and Tex system will be the same. 4
- b) Convert 520 denier into french system? 4
- c) Calculate the average count of 80's, 50's,40's and 20's cotton yarn? 4
- d) Prove $N_e \times N_t = 590.5$ 6

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7. a) Calculate the length of cloth produced on 12 looms in 12 hours which makes 220 picks per minute. The PPI in the cloth are 60 and loom has efficiency of 80%. 6
- b) Calculate the eccentricity of loom having 3" length of crank and 15" long length of crank arm? 12
8. Write short notes on any four of the following: 4½ each
- a) Loom timing
 - b) Different preparatory process
 - c) Reasons for shuttle trapping is shed
 - d) Back rest motion
 - e) Different quality woven on handloom
 - f) Break motion

