Fifth Semester
Textile Technology
Scheme July 2008
WEAVING TECHNOLOGY (504)

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.

1. Choose the correct answer. 2.5×4

i) In double lift dobby beat up is done in a

(a) Open shed (b) Closed shed

(c) Semi-open shed (d) Crossed shed

ii) A large figured designs are produced by

(a) Dobby looms

(b) Jacquard looms

(c) Tappet looms

(d) None of the above

iii) In multiple box motion, slotted pin disc is turned half a revolution gives

(a) Two box movement (b) Three box movement

(c) One box movement (d) No change

iv) "Cracks" defect in a fabric is produced

(a) Due to irregular beat-up

(b) Due to irregular shedding

(c) Due to irregular setting of temple

(d) Due to irregular take-up

2. Explain with neat sketch the working principle of single lift single cylinder jacquard mechanism. 18

3. Explain with the suitable sketch the working principle of Eccle's Drop box mechanism. 18

4. With the help of neat sketch explain the working principle of paper dobby. 18

5. Classify various types of warp stop motion. Sketch and describe the working of any warp stop motion. 18

6. Write short note any three of the following: 6 each
   a) Causes of Jack missing in dobby shedding
   b) Midgate weft feeler
   c) Cloth defects and remedies
   d) Centre weft fork motion
   e) Positive let off motion

7. A stripe fabric which is woven 42½" wide on a 60 stock port reed with 36 picks per inch. Selvedges are ¼" wide on each side woven with 2/24's bleached yarn 4 in a dent. The length of the piece is 160 yards and regain of warp is 5%. The count of weft yarn is 30's cotton. The warp pattern is a follows: 18

   40's ..... light brown ..... 4 ends

   36's ..... White ..... 4 ends

   40's ..... Red ..... 4 ends

   40's ..... Light brown ..... 4 ends

   36's ..... White ..... 4 ends

   Calculate:
   a) Total no. of ends in the warp
   b) Total length of each coloured warp yarn in hank
   c) Total weight of warp yarn in the piece in pound
   d) Total weight of weft yarn in the piece in pound
   e) Total weight of yarn in the piece in pound