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9/12/17

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. 2each

- i) Single lift dobby driven from
(a) Bottom shaft (b) Crank shaft
(c) Upright shaft (d) Side shaft
- ii) "The Double lift jacquard" figuring capacity is always equal to
(a) Double the no. of hooks
(b) Half the no. of hooks
(c) Equal to the no. of hooks
(d) None of these
- iii) In multiple box motion fixed pin disc is turned half a revolution gives
(a) One box movement (b) Two box movement
(c) Three box movement (d) No change
- iv) "Weft curl" defect in a fabric is produced
(a) Due to defective working of picking motion
(b) Due to defective working of warp stop motion
(c) Due to defective working of take up motion
(d) Due to defective working of weft fork motion
- v) According to pierce, the diameter of cotton yarn approximately equal to

- (a) $\frac{1}{38\sqrt{Ne}}$ (b) $\frac{1}{28\sqrt{Nm}}$
(c) $\frac{1}{28\sqrt{Ne}}$ (d) $\frac{1}{38\sqrt{Nm}}$

2. Explain the working of double lift single cylinder Jacquard with the help of neat sketch. 18
3. Describe the mechanism of cop changing mechanism with the help of neat sketch. 18
4. Sketch and explain with the neat sketch climax dobbie mechanism. 18
5. What are the various fabric defects occurred during weaving? Mention their remedies also. 18
6. Write short notes on any three of the followings: 18
 - a) Difference between single lift and double lift dobbie
 - b) Pick at will motion
 - c) Warp stop motion
 - d) 4×1 Drop box motion
 - e) Positive let off motion
7. A stripe fabric which is woven 42½" wide on a 60 stock port reed with 36 PPI. 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 the weft is 30's cotton. The warp pattern is as 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 bank
 - 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

