

[Total No. of Questions - 9] [Total No. of Printed Pages - 3]  
(2123)

1334

**B. Tech 3rd Semester Examination**

**Fabric Manufacturing-I (N.S.)**

**TE-214**

**Time : 3 Hours**

**Max. Marks : 100**

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

**Note :** Attempt five questions in all, select one question from each sections A, B, C and D. Section E is compulsory.

**SECTION - A**

1. (a) Describe Autocover winding machine with passage of yarn and write their salient features. (10)
- (b) Explain Automatic doffing and thread stop motion used in Hacoba pirn winding m/c. (10)
2. (a) Describe yarn classify system. What type of faults generally eliminated in different winding m/c with suitable example? (10)
- (b) Explain various type of yarn clearers and write its selling with neat sketch. (10)

**SECTION - B**

3. (a) Differentiate between Beam warping machine and sectional warping machine. (6)
- (b) Explain Beam warping machine. Also calculate No. of threads in a beam to be taken in 60's reed of 72" width of fabrics to be prepare and take another own datas. (14)

1334/120

[P.T.O.]

4. (a) With suitable sketch describe conventional size box. **(10)**  
(b) Write the object of sizing machine. Explain multi cylinder sizing m/c with neat sketch. **(10)**

### SECTION - C

5. (a) How modern drawing in process can be done now a time? Explain it. **(10)**  
(b) Classify different kind of looms with utility of each loom. **(10)**
6. (a) Write the salient feature of tappet. Draw the passage of yarn to fabric when tappet is fatted. **(10)**  
(b) How plain tappet constructed? Calculate lift of tappet by taking own datas. **(10)**

### SECTION - D

7. (a) Why underpick mechanism is more popular nowadays? Explain under pick mechanism with their timing and setting. **(12)**  
(b) Calculate shuttle speed of 72" width loom while loom running speed of 140 R.P.M. **(8)**
8. (a) Write 3 reasons (important) of each shuttle fly, shuttle smash and shuttle trap and how it can be corrected on loom. **(10)**  
(b) Explain Beating up mechanism with suitable example. **(10)**

### SECTION - E

9. (a) Write factors by which cone can be uniformly built.  
(b) Write short notes on additive type yarn tensioner.

- (c) Write about multiplicative type tensioners.
- (d) What is reed count and heald count? Also write about different type reed used in weaving.
- (e) Draw only sketch of over pick mechanism with spare names.
- (f) Write duties of worker used in sectional warping m/c.
- (g) Write about of modern sizing box.
- (h) Write salient feature of automatic loom using shuttles.
- (i) Calculate efficiency of loom when production of loom 100 mts. and 40 picks quality to be woven.
- (j) Calculate Eccentricity of sley while taking crank arm length 12" and crank length 3". **(10×2=10)**