

Roll No.

Subject Code—2248

B.F.S. (First Year) EXAMINATION

BFS-102

FABRIC SCIENCE-I

Time : 3 Hours

Maximum Marks : 100

Note : Attempt any *Five* questions.

1. Define the following terms : **2×10=20**

- (a) Loom
- (b) Filament
- (c) Knitting
- (d) English count
- (e) Denier
- (f) Tex
- (g) Weaving
- (h) Sizing
- (i) Scouring
- (j) Twist.

(2-03-06-09)

P.T.O.

2. Explain the different methods of physical and chemical identification of natural and man-made fibres. 20
3. Draw the classification chart of textile fibres according to their sources of occurrence. Also give suitable example of each. 20
4. (a) Define English count, Tex and Denier.
(b) If 240 yards of cotton yarn weigh 40 grains, what is the count of yarn ?
 $10 \times 2 = 20$
5. Describe the primary and secondary motions of a loom in short. 20
6. Classify the dyes according to their application and explain each. 20
7. (a) What is the difference between dyeing and printing ?
(b) Explain the different methods of printing.
 $10 \times 2 = 20$

8. Write short notes on any *two* of the following :

(a) Wrinkle-Resistance Finishes

(b) Transfer printing.

(c) Antistatic Finishes.

10×2=20

9. Write down the chemical and physical properties of polyester. **20**

10. Define Twist. How many types of twist are there ? What is twist-multiplier ? Write down the relationship between twist and twist-multiplier. **20**