[Total No. of Questions - 9] [Total No. of Printed Pages - 2]
(2066)

16138(J)

B. Tech 6th Semester Examination

Textile Testing-II (NS) June-16

TE-321

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 : (i) Section E is compulsory; attempt any five questions in all selecting one questions from each of the section A, B, C and D of the question paper and all the subparts of the questions in section E.

(ii) Each section carries equal marks.

SECTION - A

1. Define drape coefficient of fabrics. How the drape coefficient affects the characteristics of the fabrics? State a method to find out the Drape coefficient of the fabrics. (20)

2. Define Air permeability. State a method to find out air permeability of the fabrics with suitable diagram. (20)

SECTION - B

3. Define tenacity, elongation, mass stress, work factor, work of rupture, and yield point with suitable diagram. How will you convert load elongation curve into stress strain curve? State with suitable example. (20)

4. Define pilling propensity of fabrics. Discuss a method to find out the pilling propensity of the fabrics. (20)

[P.T.O.]

SECTION - C

5. Why testing of garment is essential? State a method to find out the seam puckering of the garment. (20)

6. What are the factors considered for choosing a seam? State the different types of seams with advantages. (20)

SECTION - D

7. How statistics is applied in the quality control? Define coefficient of correlation, its type with diagram and significance. (20)

8. On testing the two samples drawn from two spindles for twist the standard deviation were found to be 1.31 & 2.85 based on 50 and 60 tests respectively. Are two yarns varying significantly in twist? (20)

SECTION - E

9. (a) State the working principle of Uster evenness tester.

(b) Explain Drape and its significance on fabrics.

(c) Define angle of contact and its importance.

(d) How will you identify cotton fibre?

(e) Define weak link effect and its importance in testing of textile material.

(f) What are the fibre properties which lead to pill formation?

(g) Define control charts and its importance.

(h) State the factors on which air permeability of fabrics depends.

(i) What are the causes of Barre effect?

(j) What do you mean by reproducibility? (10×2=20)