

Register No.:

364

April 2024

Time – Three hours
(Maximum Marks: 100)

- [N.B. 1. Answer all questions under Part-A. Each question carries 3 marks.
2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

PART – A

1. Define absolute humidity and relative humidity.
2. Write the standard regain values for silk, polyester and viscose.
3. What do you mean by span length?
4. Define FQI.
5. Write the relation between yarn count and twist.
6. What is online testing of yarn?
7. Define drape.
8. Write the importance of measuring air permeability of fabric.
9. What is meant by histogram?
10. Define co-efficient of variation.

[Turn over.....

PART – B

11. (a) Explain the testing procedure in Shirley moisture meter instrument with a neat sketch.
(Or)
(b) Explain the working principle of wet and dry bulb hygrometer with a neat sketch.

12. (a) Explain the working of Shirley Trash analyzer with a neat sketch.
(Or)
(b) Describe the principles of measurement of fiber properties in High volume instrument (HVI).

13. (a) Explain determination of yarn count using Beesley balance with neat sketch.
(Or)
(b) Explain the working of lea strength tester with a neat sketch.

14. (a) Explain the working of Shirley crimp tester with a neat sketch.
(Or)
(b) Describe any one type of fabric tensile strength tester with a suitable sketch.

15. (a) Explain about the construction of control charts for averages and ranges.

(Or)

(b)

Value (X)	20	25	27	31	28	33	29	28	32	27
-----------	----	----	----	----	----	----	----	----	----	----

Calculate the following for the above data

(i) Mean (ii) Range (iii) Mean deviation

(iv) Percentage mean deviation (PMD) (v) Standard deviation.
