Questions - 9] [Total No. of Printed Pages - 21

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

Dec.-22-0227

TE-502 (Textile Testing-I) B.Tech. 5th (CBCS)

Time: 3 Hours

Max. Marks: 60

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

Note: Attempt five questions in all, selecting one question from each section A, B, C and D. Question no. 9 is compulsory.

SECTION - A

- 1. What is the scope of testing? Discuss the objectives of preparation of sample before testing. (10)
- 2. What do you understand by standard atmospheric condition for textile testing? What are the factors affecting regain of a textile material? (10)

SECTION - B

- 3. Explain the method of measuring trash content with suitable diagrams. (10)
- 4. What do you understand by fiber contamination? How can you measure the contamination of cotton fiber? (10)

SECTION - C

- 5. Discuss the factors affecting tensile properties of yarn? (10)
- 6. Explain in detail the effect of impact loading and fatigue behaviour in yarn. (10)

SECTION - D

7. Explain the nature and causes of irregularity. Discuss the concept of spectrogram analysis. (10)

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8. Discuss the principle and working mechanism of yarn hairiness tester. (10)

SECTION - E

- 9. (a) What do you understand by sampling error?
 - (b) Define absolute humidity.
 - (c) What do you mean by maturity of cotton fiber?
 - (d) Discuss the grading of different cotton fiber.
 - (e) What is weak link effect for tensile testing of material?
 - (f) Convert 30 Tex into metric system.
 - (g) What is the importance of fiber crimp?
 - (h) What is the relation between moisture content and moisture regain?
 - (i) List various yarn faults.
 - (j) Give applications of HVI.

(10×2≃20)