

B.TECH. DEGREE EXAMINATIONS: APRIL / MAY 2010

Sixth Semester

TEXTILE TECHNOLOGY

U07TTE02: Texturizing Technology

Time: Three Hours

Maximum Marks: 100

Answer ALL the Questions:-

PART A (10 x 1 = 10 Marks)

1. The yarn which is characterized by their high extensibility, good recovery is known as ____
A. High stretch Yarn B. Bulk Yarn C. Low stretch yarn D. None
2. The first fibre used in texturization of Helanca yarn is ____ .
A. Polyester B. Nylon C. Polyethylene D. Cotton
3. UDY stands for ____
A. Un twisted Denier Yarn B. Un even Dia Yarn C. Un Drawn Yarn D. None
4. Spandex yarn is a ____
A. Bi component yarn. B. High denier yarn C. Bulk Yarn D. All the above
5. Principle involved in Air texturizing is ____.
A. Stretching B. Over feeding C. Looping D. None of the above.
6. Principle used in knit de knit method is ____ .
A. Stretching B. Stretching & heat setting
C. Looping & un looping D. Stretching & looping
7. Say True / False. One of the method to produce the High stretch modified yarn is false twist Texturizing.
8. Texturization process increases ____.
A. Bulk B. Moisture absorption C. Softness & cover factor D. All the above.
9. Un drawn yarn is produced by ____ .
A. Conventional melt spinning B. Draw twisting
C. High speed melt spinning D. Spin drawing
10. Say True / False. Un drawn yarn has good shelf life.

PART B (10 x 2 = 20 Marks)

11. What is the need to texturize the synthetic yarn?
12. What is bulk yarn?

13. Mention the characteristics of Helanca yarn.
14. Mention the effect of fibre morphology on stretching of synthetic yarns.
15. List out the advantages of draw texturizing over conventional false twist texturizing.
16. What is twist liveliness in false twist texturizing?
17. Mention the tensile property of air jet textured yarn.
18. Why the air textured yarn to be pre wetted?
19. List out the end uses of gear crimp yarn.
20. What is knit & de knit crimping?

PART C (5 x 14 = 70 Marks)

21. (a) Explain the various classification of the textured yarn.

(OR)

- (b) Explain the general characteristics of textured yarn.

22. (a) Explain in detail about Helanca process.

(OR)

- (b) Discuss the process of thermo mechanical, mechanical & chemical texturizing.

23. (a) Explain in detail about sequential draw texturizing methods.

(OR)

- (b) Describe false twist texturizing process with neat sketch.

24. (a) Explain the principle & working of air jet texturizing process with neat sketch.

(OR)

- (b) Discuss the following.

(i) Various types of air jet nozzles [7]

(ii) Properties & application of air jet textured yarn. [7]

25. (a) Explain in detail about stuffer box crimping.

(OR)

- (b) Describe Explain the gear crimping process with neat sketch.
