

**Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University) Coimbatore-641 043**

Bachelor's Degree Examination November 2018

I Semester

Class : I UG
Major : Textiles and Apparel Designing

Time :3 hours
Max. Marks: 100

18BTDC02 Yarn Manufacturing

Part-A

10 x 1=10

Choose the correct answer

1. Yarn are linear structures created by the combination of _____ with or without twist.
a. fabric b. fiber c. apparel d. garment
2. Name a yarn imperfection from the following list_____.
a. sliver b. card c. nep d. twist
3. From the following, _____ is a filament fiber.
a. cotton b. wool c. linen d. silk
4. The common sewing thread package used is _____.
a. cop b. cocoon c. beam d. container
5. _____ yarns create different textures and effects in the fabric.
a. simple b. ply c. fancy d. corespun
6. Moisture absorbency of a polyester fiber is _____.
a. Excellent b. Good c. Fair d. Poor
7. Slight twist is given in the _____ process.
a. carding b. combing c. roving d. blowing
8. For spinning _____ yarns, ring spinning is used.
a. staple b. mono filament c. multi filament d. cover spun
9. The principle of _____ spinning is passing the carded fibers in between two longitudinal perforated drums
a. vortex b. friction c. air jet d. siro
10. For spinning of man made fibers _____ spinning method is used
a. ring b. rotor c. vortex d. wet

Part B
Answer the following
Answer should not exceed 400 words or two pages

5 X 6=30

- 11.a. Define 'Yarn twist'. Name the types of twist.
(or)
- 11.b. Define 'Yarn count'. Give examples
- 12.a. Interpret and give the characteristics of staple and filament yarn?
(or)
- 12.b. Describe the essential properties of a sewing thread
- 13.a. Give a brief note on the ply yarn and its types with suitable sketches.
(or)
- 13.b. Illustrate and brief on the components of fancy yarn.
- 14.a. Brief on the method of practicing hand spinning.
(or)
14. b. Demonstrate the significant features of ring spinning.
- 15.a. Give a detailed analysis of friction spinning.
(or)
15. b. Give an account on the textured yarns with suitable sketches

Part C
Answer the following
Answer should not exceed 800 words or four pages

5 x 12=60

- 16.a. Explain the significant properties of yarn.
(or)
16. b. Discuss the yarn faults and state the reasons for its cause.
- 17.a. Give a detailed note on the uses and importance of types of yarns
(or)
17. b. With flow chart, illustrate the production sequence of cotton sewing thread
- 18.a. Give a detailed note on the application and uses of plied and cable yarns.
(or)
18. b. With suitable diagram, differentiate the types of fancy yarn.
- 19.a. Analyse the open end spinning process and its types
(or)
- 19.b. Give a detailed note on the sequence of operations in the spinning process.
- 20.a. Categorise the spinning methods employed for man made filament yarns.
(or)
- 20.b. Detail on the operation of the Siro spinning process and its significant features
