

- Q.29 Write the important modifications required in Carding for processing of Man Made Fibres.
- Q.30 Write down the recommended setting in Ring Frame for processing 100% polyester fibre.
- Q.31 Write the objectives of texturing.
- Q.32 Write the applications of textured yarns.
- Q.33 Write objectives of heat setting of filaments.
- Q.34 Write a short note on spinning of dyed fibres.
- Q.35 Define the Direct Yarn Numbering System.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain in detail the effect of rotor design variables and rotor speed on spinning performance and yarn quality.
- Q.37 Explain the principle of working of air-jet spinning machine with diagram and give important specification of air jet spinning machine.
- Q.38 Show the passage of material through false twist texturing machine and describe it's working.

No. of Printed Pages : 4

182762/122762/032762

Roll No.

6th Sem / Branch : Textile Technology

**Subject:- Advanced Yarn Manufacturing /
Modern Methods in yarn Product**

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q1. What is the function of traveler in ring spinning?
- To hold the fibres
 - To insert the desired twist
 - To measure the length of fibres
 - To remove impurities
- Q.2 Which spinning produces the finest yarn?
- Ring Spinning
 - Rotor spinning
 - Friction Spinning
 - Air Jet Spinning
- Q.3 Which process is eliminated in Rotor spinning?
- Opening and Cleaning
 - Carding
 - Drawing
 - Winding
- Q.4 The range of speed (RPM) of Rotor in rotor spinning is.
- 5000-10000
 - 100-500
 - 30000-40000
 - About 100000

- Q.5 In friction spinning twist is inserted by:
 a) Feed Roll b) Opening roll
 c) Perforated Drum d) Rotor
- Q.6 The fasciated or wrapped yarn is related to :
 a) Ring Spinning b) Rotor Spinning
 c) Friction Spinning d) Air Jet Spinning
- Q.7 The mixing of cotton and polyester fibers is known as:
 a) Mixing b) Blending
 c) Plying d) None of these
- Q.8 Which fibre requires minimum beating point in blow room line ?
 a) Cotton b) Polyester
 c) Jute d) Wool
- Q.9 Which of the following is the only natural filament?
 a) Polypropylene b) Polyester
 c) Silk d) Nylon
- Q.10 The bulk of filament yarn is improved by :
 a) Drawing
 b) Heat setting
 c) Texturing
 d) Winding

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Name various new spinning systems.
 Q.12 What is the function of feed roll in rotor spinning?

(2) 182762/122762/032762

- Q.13 What is the purpose of transport tube in rotor spinning machine?
 Q.14 Give the range of yarn count spun on rotor spinning.
 Q.15 Name important parts of friction spinning machine.
 Q.16 Write the range of count spun on friction spinning.
 Q.17 Give two specific uses of air-jet spun yarn.
 Q.18 Name any two techniques of texturing.
 Q.19 Give one application of draw textured yarns.
 Q.20 Give one application of heat set filaments.

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Explain the raw material requirement for rotor spinning.
 Q.22 Explain the limitations of ring spinning.
 Q.23 Explain the principle of open end spinning with diagram.
 Q.24 Describe the roll of opening roll in rotor spinning.
 Q.25 Compare the properties of rotor spun yarn with ring spun yarn.
 Q.26 Explain the principle of yarn formation in friction spinning with diagram.
 Q.27 Give important properties and uses of air jet spun yarn.
 Q.28 Mention the properties required for blending of two different types of fibres.

(3) 182762/122762/032762