

- 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.

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6th Sem / Branch : Textile Technology

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

Time : 3Hrs. M.M. : 100

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SECTION-A

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

Q1. What is the function of traveler in ring spinning?

- a) To hold the fibres
 - b) To insert the desired twist
 - c) To measure the length of fibres
 - d) To remove impurities

Q.2 Which spinning produces the finest yarn?

 - a) Ring Spinning b) Rotor spinning
 - c) Friction Spinning d) Air Jet Spinning

Q.3 Which process is eliminated in Rotor spinning?

 - a) Opening and Cleaning
 - b) Carding
 - c) Drawing
 - d) Winding

Q.4 The range of speed (RPM) of Rotor in rotor spinning is.

 - a) 5000-10000 b) 100-500
 - c) 30000-40000 d) 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. $(10 \times 1 = 10)$

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

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- 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. $(12 \times 5 = 60)$

- 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 role 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.

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