

- Q.28 Briefly discuss the rotor spinning process.
- Q.29 Name different systems of Texturing.
- Q.30 Which fiber characteristics are required in open end spinning system?
- Q.31 What is the importance of blending in Spinning of yarn?
- Q.32 Give the range of Spinning speed of different spinning systems.
- Q.33 What are the limitations of ring spinning?
- Q.34 Draw the neat and clan sketch of rotor spinning.
- Q.35 What changes are done in the drafting zone of ring for polyester processing?

Section-D

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

- Q.36 Write about the open end spinning system? Explain any one method of open end spinning giving its objectives and working principle with neat diagram.
- Q.37 What are post spinning operation? Give its objective in man-made fibre production. Write a short note on drawing of filament.
- Q.38 Give an objectives of Texturing. Name the different types of texturing processes. Mention the applications of textured yarns.

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6th Sem / Textile Technology
Subject : Advance Yarn Manufacturing / Modern
Method in Yarn Production

Time : 3 Hrs. M.M. : 100

SECTION-A

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

- Q.1 Flat wire are the part of which machine.
- | | |
|--------------|---------------|
| a) Carding | b) Combing |
| c) Blow room | d) Ring frame |
- Q.2 False-Twist method is used for _____ manufacturing.
- | | |
|------------------|--------------|
| a) Rotor yarn | b) Ring yarn |
| c) Textured yarn | d) Filament |
- Q.3 The output of Simplex
- | | |
|-----------|-----------|
| a) Roving | b) Sliver |
| c) Lap | d) Yarn |
- Q.4 Delivery speed of rotor spinning.
- | | |
|---------------|----------------|
| a) 200 mt/min | b) 2000 mt/min |
| C) 20 mt/min | d) 2.00 mt/min |
- Q.5 The yarn having more softness is carded/combed _____.

- a) Carded b) Ring spun
 - c) Melt spun d) Combed
- Q.6 Winding angle of rotor spinning
- a) 47° b) 29° to 45°
 - c) 10° d) 150°
- Q.7 The yarn having more tensile strength _____.
- a) Ring spun b) Rotor spun
 - c) Both A and B d) None of these
- Q.8 Count range in rotor spinning is _____.
- a) Ne 120 b) ne 5-50
 - c) Ne 150 d) Ne 250
- Q.9 Neps of fibres are remove in ____ process.
- a) Carding b) Draw frame
 - c) Simplex d) Ring frame
- Q.10 Delivery speed of air-vortex spinning
- a) 100-150 m/min b) 200 m/min
 - c) 150 m/min d) 102 m/min

Section B

Note: Objective types Questions. All Questions are compulsory. $(10 \times 1 = 10)$

- Q.11 What is open end spinning?
- Q.12 Name two friction spinning system.

- Q.13 What is Tow?
- Q.14 Define filament yarn.
- Q.15 Write two end uses of wrap-spun yarns.
- Q.16 Name two open end spinning system.
- Q.17 Write two end uses of core-spun yarns.
- Q.18 Give the use of orton spun yarn.
- Q.19 Write two specific uses of textured yarns.
- Q.20 What is opening roller.

Section-C

Note: Short answer type Questions. Attempt any twelve Questions out of fifteen Questions. $(12 \times 5 = 60)$

- Q.21 What is the effect of fibers length on yarn's properties?
- Q.22 Define the Direct Yarn Numbering System.
- Q.23 Write two important fibre properties required for air-jet spinning.
- Q.24 What is the purpose of applying spin finish in man-made fibres?
- Q.25 What problems are faced in man-made fibre spinning?
- Q.26 Calculate Draft in Rotor Spinning System assuming suitable dater.
- Q.27 Write some properties of Textured Yarn.