

- Q.29 Name important part of Air-Jet spinning machine.
- Q.30 What is the effect of fibers length on yarn's properties?
- Q.31 Write a few properties of textured yarns.
- Q.32 Draw the neat and clean sketch of ring spinning.
- Q.33 Define Air jet spinning Give specific uses of Air-jet spun yarn.
- Q.34 Give the range of spinning speed of different spinning systems.
- Q.35 Write the important fibre properties required for friction spinning.

#### SECTION-D

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

- Q.36 Make the flow of process with the help of neat diagram of Airjet spinning. Also show the operating principle of Two-Nozzle airjet spinning.
- 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 With a neat sketch describe the method of production of yarn on DREF-3 friction spinner. Why DREF-3 yarns are relatively stronger than DREF-2 yarns?

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**6th Sem / Branch : Textile Technology**  
**Sub.: 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)

- Q.1 'C' type traveler is
- Preferred over M type
  - Not preferred
  - Small
  - Big
- Q.2 Which one is the open end spinning process
- Rotor spinning
  - Ring spinning
  - melt spinning
  - Wet spinning
- Q.3 Weight of Package in rotor spinning is \_\_\_\_\_
- Upto 50 kg
  - upto 25 kg
  - Upto 5 kg
  - Upto 1.5 kg
- Q.4 Air vortex spinning count range
- Ne 7.5-30
  - Ne 120
  - Ne 125
  - Nie 145

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 & B              d) None of these

Q.8 Count range in rotor spinning is \_\_\_\_\_

- a) N 120                      b) Ne 5-50  
c) Ne 150                    d) Ne 250

Q.9 Neps of fibers are remove in \_\_\_\_\_ process

- a) Carding                    b) Draw frame  
c) Simplex                   d) Ring frame

Q.10 TM stands for

- a) Time Management    b) TOW Manufacturer  
c) Twist Multiplier      d) Two Manmade fiber

### SECTION-B

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

Q.11 What is Air-Jet spinning.

Q.12 What is Tow?

Q.13 Define Twist Multiplier.

Q.14 Name any two techniques of texturing.

Q.15 What do you mean by efficiency of a machine.

Q.16 Name important parts of air-jet spinning machine.

Q.17 What is opening roller.

Q.18 Give two major limitations of ring spinning.

Q.19 What is filament?

Q.20 Define melt spinning.

### SECTION-C

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

Q.21 What changes are done in the drafting zone of ring for polyester processing?

Q.22 Is fibers length effect the yarn's properties? If yes than explain how?

Q.23 Explain the process of Rotor spinning.

Q.24 What are the objectives of heat setting?

Q.25 Draw the neat and clean sketch of rotor spinning.

Q.26 Which kinds of problems are faced in man-made fiber spinning?

Q.27 Compare rotor spun yarn with ring spun yarn.

Q.28 What are the objectives of Air Nozzles?