

- Q.26 Which spinning system result in false twist?  
 Q.27 Briefly describe the operating principle of two nozzle air jet spinning.  
 Q.28 Write a note on heat setting?  
 Q.29 Explain how texturing yarn affect fabric made from it?  
 Q.30 What is the purpose of drawing?  
 Q.31 Compare friction spun yarn and rotor spun yarn.  
 Q.32 Write a short note on drawing of filament.  
 Q.33 How is false twist made?  
 Q.34 Write a note on mono-filament yarns.  
 Q.35 What properties are improved in drawing process?

### **SECTION-D**

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

- Q.36 Compare air-jet and friction spinning.  
 Q.37 Explain the principle behind yarn formation in air-jet spinning.  
 Q.38 Explain in detail the objective of post spinning operations.

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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 Ring spinning machine is  
 a) Conventional frame spinning machine  
 b) Intermittent spinning machine  
 c) None of these  
 d) Both of these  
 Q.2 Rotor spun yarns have  
 a) High twist  
 b) Slack twist  
 c) More shrinkage  
 d) High moisture absorption  
 Q.3 DREF is  
 a) Friction spinning process  
 b) Air Jet spinning  
 c) Twist less spinning  
 d) Texturing of yarn  
 Q.4 Yarns made into crepe fabrics have

- a) Slack twist              b) maximum twist  
 c) Ply twist              d) None of these
- Q.5** Binding of fibres into a continuous strand is done by  
 a) Carding              b) Dyeing  
 c) Twisting              d) Blending
- Q.6** Which of these is not a modern method of yarn manufacturing?  
 a) Handloom  
 b) Rotor spinning machine  
 c) Open end spinning process  
 d) None of these
- Q.7** Combination of two different types of fibers into a single yarn is called  
 a) Blending              b) Carding  
 c) Spinning              d) Roving
- Q.8** Roving is the  
 a) Skein              b) Yarn  
 c) Bundle of fiber      d) Bobbin
- Q.9** Georgette is a  
 a) Slack twist yarn      b) Crinkled yam  
 c) Smooth yarn           d) Filament yarn
- Q.10** Small nozzle through which filament yarn is extruded is called  
 a) Spinneret              b) Frame  
 c) Selftwist              d) None of the above

## **SECTION-B**

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Define open end spinning?  
 Q.12 Give a method of texturing.  
 Q.13 Define Z-twist?  
 Q.14 Which gives a finer yarn ring spinning / air-jet spinning?  
 Q.15 A homogeneous mixture of two different fibres is known as \_\_\_\_\_.  
 Q.16 What is TOW?  
 Q.17 The delivery speed of airjet spinning is \_\_\_\_\_.  
 Q.18 What is drawing?  
 Q.19 List the advantages of rotor yarn.  
 Q.20 What is count range in air-jet spinning?

## **SECTION-C**

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 List the properties of ring spun yarn.  
 Q.22 How does drawing improve yarn properties?  
 Q.23 What is the range of speed of spinning roller? Why should it not be too slow?  
 Q.24 Draw a flow chart to show the process flow of rotor spun yarn.  
 Q.25 What is textured yarn. Give suitable examples.