

## SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 What are the benefits of heat setting? Explain few techniques and their principle of Heat setting.
- Q.24 What is texturing process? What are its application and advantage of textured yarn.
- Q.25 What are post spinning operation? Give its objective in man-made fibre production. Write a short note on drawing of filament.

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## 6th Sem / Textile Technology

### Subject:- Advanced Yarn Manufacturing

Time : 3Hrs.

M.M. : 60

## SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Which one is the open end spinning process
- a) Rotor spinning      b) Ring spinning
- c) Melt spinning      d) Wet spinning
- Q.2 The yarn having more softness is \_\_\_\_\_
- a) Carded      b) Ring spun
- c) Melt Spun      d) Combed
- Q.3 What is the main limitation of ring spinning that led to the development of new spinning systems?
- a) Low productivity
- b) High energy consumption
- c) Limited fiber compatibility
- d) All of the above

Q.4 The yarn having more tensile strength \_\_\_\_\_

- a) Ring spun                      b) Rotor spun
- c) Both A & B                      d) None of these

Q.5 What is the principle of open-end spinning?

- a) Using a rotor to spin fibers into yarn
- b) Using a jet of air to spin fibers into yarn
- c) Using a friction device to spin fibers into yarn
- d) Using a ring to spin fibers into yarn

Q.6 Weight of Package in rotor spinning is \_\_\_\_\_

- a) Upto 50 kg                      b) Upto 25 kg
- c) Upto 5 kg                      d) Upto 1.5 kg

### SECTION-B

**Note:** Objective/Completion type questions. All questions are compulsory. (6x1=6)

Q.7 What is moisture regain of polyester fiber?

Q.8 What is PET?

Q.9 What is filament?

Q.10 Name any two techniques of texturing.

Q.11 Give two major limitations of ring spinning.

Q.12 Write two uses of nylon.

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 What changes are done in the drafting zone of ring for polyester processing?

Q.14 Give the principle of DREF spinning?

Q.15 Is fiber length effect the yarn's properties? If yes then explain how?

Q.16 What are the tasks of rotor spinning machine?

Q.17 Explain the process of Rotor spinning.

Q.18 What is the effect of fiber length on yarn's properties?

Q.19 What are the objectives of heat setting?

Q.20 Write down the advantage of new spinning system as compared to ring spinning.

Q.21 Compare dry spinning with wet spinning.

Q.22 What is the requirement for blending of fibers.