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BTECH
(SEM VII.) THEORY EXAMINATION 2020-21
ADVANCE SPINNING TECHNOLOGY

Time: 3 Hours**Total Marks: 100****Note:** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief. 2 x 10 = 20**

a.	What is the end use of OE yarn yarn?
b.	Why friction yarn is more bulky than ring and rotor yarn?
c.	Why ring yarn have higher snarling tendency than OE yarn?
d.	What is count range in OE spinning?
e.	What is the effect of rotor diameter on yarn quality?
f.	What is the importance of back doubling in rotor spinning
g.	Why friction yarns have lower tensile strength than ring and rotor
h.	What is the role of spinning tension in friction spinning
i.	Why two nozzles are used in friction spinning?
j.	What is the end use of electrostatic yarn?

SECTION B**2. Attempt any three of the following: 10x3=30**

a.	Explain the working principle of friction spinning system.
b.	Explain the importance of rotor groove in OE spun yarn
c.	Explain the DREF-2 technology
d.	Explain the yarn properties of friction spun yarn.
e.	Explain theyarn structure of rotor spun yarn.

SECTION C**3. Attempt any one part of the following: 10x1=10**

a.	Explain the significance of rotor yarn characteristics for the apparel use
b.	Explain the influence of process parameter on yarn properties in airjet spinning

4. Attempt any one part of the following: 10x1=10

a.	Explain the different type of fancy yarn
b.	Explain the influence of process parameter in airjet technology

5. Attempt any one part of the following: 10x1=10

a.	Explain the yarn formation mechanism in air jet spinning.
b.	Explain the yarn property requirement of tyre cord application

6. Attempt any one part of the following: 10x1=10

a.	Explain the working principle of electrostatic spinning with limitation
b.	Explain the advantages of OE spinning over ring spinning.

7. Attempt any one part of the following: 10x1=10

a.	Compare yarn properties of airjet, ring, and friction and rotor yarn
b.	Explain the yarn formation mechanism in Rotor spinning.