Scheme - I

Sample Question Paper

Program Name	: Diploma in Textile Manufactures	**22676**
Program Code	: TX	
Semester	: Sixth	
Course Title	: Process Control in Spinning	
Max. Marks	: 70	Time: 3 Hrs.

Instructions:

(1) All questions are compulsory.

(2) Illustrate your answers with neat sketches wherever necessary.

(3) Figures to the right indicate full marks.

(4) Assume suitable data if necessary.

(5) Preferably, write the answers in sequential order.

Q1.   Attempt any FIVE of the following.   10 Marks

a) Define: Process control in spinning.

b) Define: Yarn realization.

c) State the importance of pneumaphil pressure.

d) State the importance of cots buffing.

e) Define: Hard waste.

f) State the application of productivity Index.

g) Give the formula for LER.

Q2.   Attempt any Three of the following.   12 Marks

a) State the importance of key variables; explain one key variable for each department in spinning

b) Explain the methods of establishing standards and norms in process control.

c) Describe with neat sketch graphical method to control mixing cost and quality.

d) Give the application of linear programming method

Q3. **Attempt any Three of the following.** **12 Marks**

a) Give the yarn realization norms for 60s combed yarn.

b) State the nep causes and remedies in carding department

c) Define fractionating efficiency, also state the factors affecting.

d) List and explain roving bobbin defects

Q4. **Attempt any Three of the following.** **12 Marks**

a) Differentiate any four points between lap feed and chute feed system in carding based on ease of handling material, quality of delivered sliver, productivity and maintenance of machines.

b) Give the application of AFIS tester used for carding.

c) State the causes and remedies of sliver breakages in draw frame.

d) Explain the causes and remedies of within and between count variation in ring frame.

e) List the ring yarn faults.

Q5. **Attempt any Two of the following.** **12 Marks**

a) Suggest the factors affecting on yarn strength.

b) Explain the methods to control yarn strength variation in rotor spinning.

c) State the causes and remedies of end breakages in rotor spinning.

Q6. **Attempt any Two of the following.** **12 Marks**

a) Explain the rotor package faults causes and remedies.

b) State the importance of energy management and machinery audit in spinning department.

c) List and give application of test instruments used for machinery audit.

Scheme - I

Sample Test Paper - I

Program Name   : Diploma in Textile Manufactures

 Program Code   : TX

Semester   : Sixth

Course Title   : Process Control in Spinning

Max. Marks: 20   **Time: 1 Hour**

Instructions:

(1) All questions are compulsory.
(2) Illustrate your answers with neat sketches wherever necessary.
(3) Figures to the right indicate full marks.
(4) Assume suitable data if necessary.
(5) Preferably, write the answers in sequential order.

Q.1 Attempt any FOUR.   (8 Marks)

    a) Define key variable.

    b) Give the formula for FQI..

    c) Define yarn realiasation.

    d)   State the causes of lap rejection in blow room.

    e)   Define fractionating efficiency.

    f) Define periodic irregularity.

Q.2 Attempt any THREE.   (12 Marks)

    a) Draw and label passage of material through AFIS tester.

    b) Suggest the steps to control yarn realization.

    c) State the causes of roving breakage.

    d) State the causes and remedies of

          i. spinners doubles

          ii. Snarl yarn defect.

Scheme - I

Sample Test Paper - II

Program Name	: Diploma in Textile Manufactures
Program Code	: TX
Semester	: Sixth
Course Title	: Process Control in Spinning
Max. Marks	: 20

$$\boxed{\textbf{22676}}$$

Time: 1 Hour

Instructions:

(1) All questions are compulsory.
(2) Illustrate your answers with neat sketches wherever necessary.
(3) Figures to the right indicate full marks.
(4) Assume suitable data if necessary.
(5) Preferably, write the answers in sequential order.

Q.1 Attempt any FOUR. (8 Marks)

a) Explain the importance of Indices of productivity.

b) Define i) MEI ii) PI.

c) List the names of rotor package faults.

d) Give the energy consumption in ring frame.

e) Define machinery audit.

f) List the names of testing instruments used in machinery audit.

Q.2 Attempt any THREE. (12 Marks)

a) State the steps to maximize ring frame efficiency..

b) Give the norms for rotor lea count variation.

c) State the causes of rotor package defects.

d) Give the energy conservation in spinning and weaving department.