Scheme - I

Sample Question Paper

Program Name	: Diploma in Textile Manufacturers	
Program Code	: TX	
Semester	: Fourth	22461
Course Title	: Roving and Ring Spinning	
Max. Marks	: 70	Times: 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.

Q.1 Attempt any FIVE of the following.

- a) Define the term false twisting.
- b) State the objects of Roving frame.
- c) State the importance of stop motions in roving frame.
- d) State the importance of binding coil, and its ratio with winding coil.
- e) State the importance anti- wedge rings.
- f) State the necessity of elliptical traveller.
- g) State the tasks of Ring frame building mechanism.

Q.2 Attempt any Three of the following.

- a) Suggest the remedies for following roving package faults:-i) soft bobbins ii) slough -off.
- b) Calculate the production of a roving frame from following particulars in kgs per shift of 7.5 hrs :- i) spindle speed -950 rpm. ii) TM-1.2 iii) Weight of rove -7 Grains /yard IV) Efficiency -87% v) Spindles/frame -120.
- c) Give any eight modern features of a roving frame.
- d) Describe with neat sketch passage of material through ring frame.

12 Marks

10 Marks

Q.3) Attempt any Three of the following.

- a) Describe with neat sketch passage of material through roving frame.
- b) Describe with neat sketch electronic building mechanism used in roving frame.
- c) Suggest the importance of stop motions used in roving frame.
- d) Draw neat labeled sketch of a different rings used in ring frame.

Q.4) Attempt any Three of the following.

- a) Differentiate any four points between bobbin lead and flyer lead system in roving frame based on ease of rove stretch, end breakage, and evenness.
- b) Calculate the production of ring frame in kgs/shift of 8 hours from the following particulars:- i) spindle speed-18000 ii) count -24Ne iii) Efficiency-90% iv) T.M.-4.1 v) spindles/frame -1008.
- c) With neat sketch state the functions of different travellers.
- d) State the functions of traveller clearer and suitable settings between traveller and traveller clearer.
- e) Describe with neat sketch ant wedge rings and elliptical traveller.

Q.5) Attempt any Two of the following.

- a) Describe with neat sketch ring frame building mechanism.
- b) State the advantages and disadvantages of ring frame auto-doffing based on ease of time, labour, maintenance.
- c) Give modern features of ring frame.

Q.6) Attempt any Two of the following.

- a) State the difficulties for automation in ring frame department.
- b) With neat sketch describe plug type spindle.
- c) State the importance of spinning triangle, describe with neat sketch spinning triangle.

12 Marks

12 Marks

12 Marks

12 Marks

Scheme - I

Sample Test Paper - I

Program Name	: Diploma in Textile Manufacturers	
Program Code	: TX	
Semester	: Fourth	22461
Course Title	: Roving and Ring Spinning	
Max. Marks	: 20	Times: 1 Hour
Instructions		

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.

- a) Draw the schematic diagram of flyer.
- b) State the functions of hollow leg and solid leg of a flyer.
- c) List various defects of roving bobbin.
- d) Sate the importance of binding coil ring frame.
- e) State the importance of monitoring in roving frame.
- f) State the objects of ring frame.
- g) Enlist various defects of ring bobbin.

Q.2 Attempt any THREE.

- a) Explain the working of roving frame building mechanism with relevant sketch.
- b) Describe with a labelled diagram, the passage of yarn through roving frame.
- c) State the causes of end breakages in ring frame.
- d) Give the modern features of ring frame.
- e) Calculate the production of ring frame in kgs/shift of 8 hrs from following particulars :-
 - Spindle speed -17500 rpm.
 - Twist multiplier -4.0.
 - Count -24 Ne.
 - Efficiency -92%.
 - Spindles/frame -1008.

12 Marks

08 Marks

Scheme - I

Sample Test Paper - II

Program Name	: Diploma in Textile Manufacturers	
Program Code	: TX	
Semester	: Fourth	22461
Course Title	: Roving and Ring Spinning	
Max. Marks	: 20	Times: 1 Hour
(3) Figures to the rig(4) Assume suitable	swers with neat sketches wherever necessary. ht indicate full marks.	
Q.1 Attempt any FOUR.		08 Marks
a) State the tasks	s of auto leveller used in ring frame.	
b) State the object	cts of building mechanism used in ring frame.	
c) State the impo	ortance of elliptical traveller.	
d) State the func	tion of traveller clearer.	
e) State the object	cts of ring frame auto doffing.	
f) State the impo	ortance of ring frame automation.	
g) State the caus	es of ring bobbin slough-off.	
Q.2 Attempt any THREE.		12 Marks
a) State causes a	nd remedies of ring cut bobbin.	

- b) Draw and label any four rings.
- c) Give modern features of ring frame.
- d) Suggest causes and remedies for end breakages in ring.
- e) Draw and give traveller numbers of any four travellers.