

- Q.29 Compare the carded yarn with combed yarn.
 - Q.30 Write a short note on maintenance of ring frame.
 - Q.31 Draw gearing diagram of simplex frame.
 - Q.32 Write a short note on Twist and its Type.
 - Q.33 What are the objectives of Ring Frame?
 - Q.34 Why the diameter of top rollers made higher than that of bottom roller in a drafting system of ring frame?
 - Q.35 What is yarn doubling and its effect?

SECTION-D

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

- Q.36 Explain yarn doubling by defining it. Also discuss in details about the effects of doubling and wet and dry system of doubling.

Q.37 Write in details about the various parts of parts of ring frame and also shows the passage of material with suitable line diagramme.

Q.38 Define the drafting system and explain the Top Arm Drafting system. What are the advantages of apron drafting?

No. of Printed Pages : 4 182752/122752/032752
Roll No.

**5th Sem / Branch : Text. Tech.
Sub.: Spinning Technology-III**

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 What is the maximum speed in RPM of spindle in the present day ring frame
a) 20000 b) 25000
c) 28000 d) 18000

Q.2 If the traveller mass is too small what will happen in ring spinning
a) Balloon will too big
b) Too small
c) Cop too hard
d) Cap content will be less

Q.3 The tapered angle of roving bobbin is _____
a) 75 Degree b) 85 Degree
c) 65 Degree d) 55 Degree

Q.4 The spindle speed is _____
a) Less than flyer speed
b) Equal to flyer speed
c) More than flyer speed
d) Equal bobbin speed

- Q.5 The ring traveller that help to reduce friction heat is _____.
 a) Suking b) Low crown ring
 c) C-type traveller d) Ring rail
- Q.6 The roving hank is usually _____ tex
 a) 50 b) 100
 c) 500 d) 1000
- Q.7 What is the total draft range in ring frame usually?
 a) 8 to 10 b) 12 to 40
 c) 40 to 80 d) 45 to 54
- Q.8 The objectives of apron is to control the _____
 a) Long fiber b) Staple fiber
 c) Short fiber d) None of these
- Q.9 The number of row of roving bobbin in ring creel is usually _____
 a) 2 b) 4
 c) 6 d) 8
- Q.10 Twisting reduce the _____ of fiber strand
 a) Thinness b) Thickness
 c) Big size d) Small

SECTION-B

Note: Objective type questions. All questions are compulsory. $(10 \times 1 = 10)$

- Q.11 What is Mechanical Draft?
 Q.12 What is Twist?

(2) 182752/122752/032752

- Q.13 If the break draft and main draft of a ring frame is 1.35 and 20 respectively. What is the amount of Total draft?
 Q.14 Full form of TM.
 Q.15 What is worsted system?
 Q.16 What is Doubling?
 Q.17 Define Ring spinning.
 Q.18 What is Apron Drafting?
 Q.19 Full form of TPI _____.
 Q.20 How can we specify the size of ring?

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. $(12 \times 5 = 60)$

- Q.21 Explain various modifications done in modern ring frame.
 Q.22 Explain the working principle of Top Arm Drafting system.
 Q.23 Draw the gearing diagram showing various drive of a ring doubling machine.
 Q.24 How can you calculate the yarn diameter citing example using your own data.
 Q.25 Discuss about the change place of ring frame.
 Q.26 Explain the yarn ballooning control ring in detail.
 Q.27 Write short note on separator and lappets.
 Q.28 Explain the roller drafting system in ring frame.

(3) 182752/122752/032752