

No. of Printed Pages : 4
Roll No.

222751

**5th Sem. / Textile Technology
Subject : Spinning Technology - III**

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple Choice Questions. All Questions are compulsory. (6x1=6)

- Q.1 If two yarn of 30 Ne double what will be the resultant count.
a) 30 b) 60
c) 15 d) 120
- Q.2 Which spinning system give even structure is twist
a) Ring frame spinning b) Friction spinning
c) Rotor spinning d) Air jet spinning
- Q.3 For 30 Ne cotton count ring traveller generally used _____.
a) 1/10 b) 5/0
c) 7/0 d) 3/0
- Q.4 Traveler speed is always _____ than spindle speed.
a) More b) Less
c) Equal d) Not related

- Q.5 The shape of ring
 a) Eclipse b) Cubic
 c) Circular d) Square
- Q.6 Increasing the spindle speed affects the yarn tension called as _____.
 a) Yarn ballooning b) Lappet
 c) Loop d) Ballon height

Section-B

Note: Objective/Completion type questions. All questions are compulsory. $(6 \times 1 = 6)$

- Q.7 Break draft = surface speed of 2nd roller/-
- Q.8 What is worsted system?
- Q.9 Density is increased/decreased _____ after drafting.
- Q.10 Separator are used for _____.
- Q.11 Full for of TM.
- Q.12 how can we specify the size of ring?

Section-C

Note: Short answer type Question. Attempt any eight questions out of Ten Questions. $(8 \times 4 = 32)$

- Q.13 Explain various process control parameters of ring frame section with reference to yarn quality.

- Q.14 Discuss about the change place of ring frame.
- Q.15 Explain the working principle of Top Arm Drafting system.
- Q.16 Compare the carded yarn with combed yarn.
- Q.17 Draw the gearing diagram showing various drive of a ring doubling machine.
- Q.18 What is the effect of twist on yarn properties?
- Q.19 Compare woolen and worsted yarn.
- Q.20 Explain Melange and core spun yarn in details.
- Q.21 Write down the objectives of ring frame and nomenclature of various parts of ring frame.
- Q.22 Briefly explain the advantages of auto doffing in ring frame.

Section-D

Note: Long answer questions. Attempt any two question out of three Questions. $(2 \times 8 = 16)$

- Q.23 In a ring frame 30 Ne carded yarn is to be spun, in which spindle speed is 20000 rpm and working spindle are 1632. Twist multiplier is 4.0 and efficiency is 96% than find out its production in lbs/shift.
- Q.24 What are the reasons of end breakage in ring frame? Also gives the remedies of end breakage.
- Q.25 Write in details about the various parts of parts of ring frame and also shows the passage of material with suitable line diagramme.