

222751

## Time : 3 Hrs.

M.M. : 60

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

- Q.1 If two yarn of 30 Nedouble 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) Airjet 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 in 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 balloning              b) Lappet  
 c) Loop                          d) Ballon height

### Section-B

**Note: Objective/Completion type questions. All questions are compulsory. (6x1=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. (8x4=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. (2x8=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.