

- Q.27 What are the different type of top arm drafting system?
- Q.28 Draw the neat diagram of three different type of ring.
- Q.29 Write 5 modern feature of ring frame.
- Q.30 In a ring frame TM is 4.0 and spindle speed is 10000. Count is 16Ne. Calculate the front roller speed in inches per minute.
- Q.31 Write the difference between preventive and breakdown maintenance.
- Q.32 How to improve performance of doubling machine related to productivity?
- Q.33 Write a short note on twist and its type.
- Q.34 How much should be the hardness of top roller covering in ring spinning for cotton? What will happen if drafting roller hardness is very low?
- Q.35 Write about the benefit of variable pulley speed in ring frame with neat diagram.

#### **SECTION-D**

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

- Q.36 Explain dry system of doubling machine with neat diagram.
- Q.37 Explain the yarn defect and their remedies in ring frame machine.
- Q.38 Explain the building mechanism in ring frame with neat diagram.

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**5th Sem. / Textile Technology**

**Subject:- Spinning Technology- 3**

Time : 3Hrs.

M.M. : 100

#### **SECTION-A**

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

- Q.1 Spindle tape is a part \_\_\_\_\_ machine  
 a) carding                                      b) draw frame  
 c) speed frame                                 d) ring frame
- Q.2 The twist and yarn flow directions are  
 a) same in spinning zone  
 b) same in winding zone  
 c) same in balloon zone  
 d) none of these
- Q.3 What TM is used for production of polyester yarn?  
 a) 3    b) 5  
 c) 6    d) none of these
- Q.4 If two yarn of 60ne is doubled what will be resultant count  
 a) 10    b) 120  
 c) 30    d) none of these

- Q.5 In 10s count ring frame yarn ring diameter generally use
- a) 38mm                      b) 32mm
  - c) 40mm                      d) 54mm
- Q.6 The finest yarn among the following is
- a) 10ne                      b) 6ne
  - c) 20ne                      d) 30ne
- Q.7 If break draft is 1.0 and main 30 than what is total draft
- a) 27                        b) 20
  - c) 30                        d) 32
- Q.8 When twist is increased in spun yarn, its strength
- a) increase
  - b) decrease
  - c) does not change
  - d) first decrease then increase
- Q.9 The break draft change pinion changes
- a) back zone draft        b) front zone draft
  - c) both a & b              d) total draft
- Q.10 What is maximum speed of spindle in the present day ring frame
- a) up to 10000 rpm        b) up to 16000 rpm
  - c) up to 28000 rpm        d) up to 15000 rpm

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## SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 What is function of ring in ring frame?
- Q.12 Name any two methods to apply pressure on top roller.
- Q.13 What is need to place separators between spindle?
- Q.14 What is the function of spindle tape in ring frame?
- Q.15 Name two types of waste in ring frame.
- Q.16 Name any two type of traveller.
- Q.17 What is berkolisation?
- Q.18 What is the function of balloon control ring in ring frame?
- Q.19 Each traveler rotation give \_\_\_\_\_ twist in yarn.
- Q.20 Traveler is used to impart \_\_\_\_\_ in the yarn.

## SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 What are the objective of doubling machine?
- Q.22 How to maintain the top roller of the drafting arrangement?
- Q.23 Briefly explain the causes of end breakage in ring frame.
- Q.24 Explain the working of TFO machine with neat diagram.
- Q.25 What is difference between woolen and worsted system?
- Q.26 Draw the neat diagram of ring frame machine with 10 parts name.

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