Q.28 How can we improve the quality performance of doubling machine?

Q.29 What are the objective of ring frame machine?

Q.30 Write any three system of wet doubling with neat diagram.

Q.31 Write in the form of flow chart the sequence of machine used to produce in woollen and worsted system.

Q.32 Write short note on variable pulley speed in ring frame.

Q.33 Write advantage and disadvantage of spring loaded, pneumatic weighing for applying pressure in top arm drafting system.

Q.34 What are the different feature of good ring and traveller?

Q.35 What is the function of balloon control ring, spacer, Separator, suction nozzle?

SECTION-D

Note : Long Answer type question. Attempt any two questions. (2x10=20)

Q.36 Explain the builder motion of Ring frame with neat diagram.

Q.37 Explain the causes and remedies of end breakage in Ring frame.

Q.38 What is doubling? Explain the dry and wet system of doubling.

5th Sem, **Branch :** Textile Technology
Subject : Spinning Technology-3

Time : 3 Hrs.   **M.M. : 100**

SECTION-A

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

Q.1 The finest yarn among the following is _____.
a) 40   b) 30
c) 20   d) 25

Q.2 Feed material to ring fame machine.
a) Sliver   b) Yarn
c) Roving   d) None of these

Q.3 Which of the following is example of indirect count system?
a) TEX   b) Denier
c) Metric count (Nm)   d) None of these

Q.4 Length of yarn delivered per builder cam rotation.
a) 3 to 5 m   b) 6 to 8 m
c) 8 to 10 m   d) 10 to 12 m

Q.5 For a given spindles peed, the production increases with _____.
a) Increase in TM
b) Decrease in yarn count

c) Increase in yarn count

d) None of above

Q.6 Which is part of ring frame?

a) Lappet hook   b) Traveller

c) Both A & B   d) Can

Q.7 Function of traveller in ring frame to impart _____.

a) Draft   b) Twist

c) Pull   d) None of these

Q.8 The ring that help to reduce frictional heat is _____.

a) SU ring   b) Low crown ring

c) Both A & B   d) Anti wedge ring

Q.9 The number of rows of roving bobbin in ring frame creel is usually _____.

a) 2   b) 4

c) 6   d) 8

Q.10 Spindle is part of _____ machine.

a) Ring Frame   b) Draw frame

c) Comber   d) None of these.

SECTION-B

Note : Objective type questions. All questions are compulsory. (10x1=10)

Q.11 Draw S and Z twist.

Q.12 What is the full form of TM?

Q.13 Write the relationship between TPI. TM and Yarn Count.

Q.14 What is slub yarn?

Q.15 If two yarn of 30 ne is double. Find the resultant count.

Q.16 Convert the 100 denier to English count.

Q.17 Write the full form of TFO machine.

Q.18 Name any two type of ring.

Q.19 Write full form of TPI.

Q.20 What is the object of ring doubler?

SECTION-C

Note : Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 Draw the neat diagram of four different type of traveler.

Q.22 Draw the passage of material in ring frame.

Q.23 How can we specify the size of ring. Write any one ring with neat figure.

Q.24 Write short note on apron system of drafting.

Q.25 Explain the process control parameter in ring frame related to productivity.

Q.26 Write various maintenance schedule adopted in ring frame.

Q.27 In a ring frame TM is 4.0 and spindle speed is 16000. Count is 25ne. Calculate the front roller Speed in inches per minute.