Q.30 Write about different type to traveler with neat diagram.

Q.31 How can we improve the quality performance of doubling machine?

Q.32 Draw the sequence of machines used to produce woolen yarn.

Q.33 Write about the different type method to apply pressure on top roller ?

Q.34 Write the principle of variable pulley speed in ring frame.

Q.35 Why the diameter of top roller made higher than that of bottom roller in a drafting system of ring frame ?

SECTION-D

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

Q.36 Explain the different wet system of doubling yarn with neat diagram.

Q.37 Explain the working principle of ring frame machine with neat sketch.

Q.38 If a ring frame is running on 15000 rpm spindle speed with twist multiplier of 4. find the production in kgs / shift/ spindle of 8 hrs of 10 Ne carded yarn.

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

Time : 3Hrs.   M.M. : 100

SECTION-A

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

Q.1 Drum pulley is a part _____ machine.
a)   carding   b)   draw frame
c)   speed frame   d)   ring frame.

Q.2 If two yarn of 30 ne double what will be the resultant count.
a)   30   b)   15
c)   60   d)   50

Q.3 English count (Ne)=?/TEX
a)   9   b)   110
c)   5315   d)   590.6

Q.4 Which spinning system is widely used
a)   ring spinning   b)   friction spinning
c)   air vortex spinning d)   rotor spinning

Q.5 If total draft is 40 and main draft is 20. calculate the break draft
a)   2   b)   1
c)   1.5   d)   1.7

Q.6 Which of the following is example of indirect count system ?

a) Tex   b) denier

c) English count(Ne)   d) None of these

Q.7 In 10 Ne cotton count yarn ring traveler generally are

a) 3   b) 3/0

c) 6/0   d) 7/0

Q.8 Length of yarn delivered per builder cam rotation ?

a) 10 to 11 m   b) 3 to 5 m

c) 8 to 9 m   d) 9 to 10 m

Q.9 The coarsest yarn among the following is

a) 10 Ne   b) 8 Ne

c) 12 Ne   d) 14 Ne

Q.10 80 % of twist in ring spinning process in _____ direction

a) z   b) s

c) zz   d) ss

SECTION-B

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

Q.11 Write any three sizes of cradle in mm ring frame ?

Q.12 Name any two type of twist

Q.13 Name any two type of ring

Q.14 What is function of spacer in ring frame machine ?

Q.15 What is full form of TPI ?

Q.16 Write the relationship between TPI, TM and yarn count .

Q.17 Write any one advantage of compact yarn .

Q.18 Write any two objective of ring frame machine .

Q.19 What is the ratio of winding length to binding length ring frame machine ?

Q.20 Write any brand name of ring frame machine.

SECTION-C

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

Q.21 In a ring frame TM is 4.0 and spindle speed is 10000. Count is 16 ne . calculate the front roller speed in inches per minute

Q.22 Write various maintenance schedule adopted in a ring frame.

Q.23 What are the object of a ring doubling machine ?

Q.24 Write any five differences between compact and normal ring yarn ?

Q.25 Why TFO machine is preferred in place of ring doubling machine ?

Q.26 Write about the structure of ring cop with neat diagram ?

Q.27 Write short note on apron system of drafting .

Q.28 Write about the new development in ring frame machine.

Q.29 Explain the process control parameter in ring frame related to quality.