Q.25 Give specific applications of rotor spun yarns.

Q.26 Give important properties and uses of friction spun yarn.

Q.27 Explain the principle of yarn formation in air jet spinning with diagram .

Q.28 Write the modifications required in Blow Room machines for processing of Man made fibres .

Q.29 Write down the recommend setting in Carding for processing 100% polyester fibre.

Q.30 Write the important modifications required in Ring Frame for processing of Man Made Fibres.

Q.31 Classify various methods of texturing .

Q.32 Explain the principle of stuffer-box crimping.

Q.33 Write objectives of drawing of filaments .

Q.34 Write the applications of draw textured yarns.

Q.35 Write a short note on application of antistatic finish.

SECTION-D

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

Q.36 Show the passage of material through rotor spinning machine and describe the method of yarn formation.

Q.37 Explain the principle of friction Spinning with diagram. Give specifications of DREF-3 friction Spinning machine.

Q.38 For what purpose drawing and heat setting of filaments is done. Describe the passage of yarn through draw texturing machine with diagram .

Roll No. .....

6th Sem / Textile Technology

Subject:- Advanced Yarn Manufacturing/ Modern Methods in Yarn Production

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 The name of package formed in ring spinning is :

a) Cone b) Cheese

c) Bobbin d) None of these

Q.2 Which type of spinning system produces the strongest yarn ?

a) Ring Spinning b) Rotor Spinning

c) Friction Spinning d) Air Jet Spinning

Q.3 Which Spinning produces the softest yarn ?

a) Ring Spinning b) Rotor Spinning

c) Friction Spinning d) Air Jet Spinning

Q.4 In Rotor Spinning twist is inserted by :

a) Feed Roll b) Opening Roll

c) Rotor d) Transport Tube

Q.5 The range of speed (RPM) of opening roll in rotor spinning is :

a) 5000-10000 b) 100-500

c) 30000-40000 d) Above 100000

Q.6 Which Spinning system has the highest production in kilograms ?

a) Ring Spinning b) Rotor Spinning

c) Friction Spinning d) Air Jet Spinning

Q.7 The English Count range of friction spinning is :

a) 0.18-5 b) 5-30

c) 20-40 d) Above 40

Q.8 Murata Jet Spinner (MJS) is successful for spinning of :

a) Wool b) Polyester and its blends

c) Nylon d) Jute

Q.9 Most widely used man-made fibre is:

a) Acrylic b) Spandex

c) Polyester d) Nylon

Q.10 Texturing is the processes that introduce :

a) Coils b) Crimps

c) Zig-zag shaping d) All of above

SECTION-B

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

Q.11 Give the main limitation of ring spinning .

Q.12 Which fibre is spun on friction spinning ?

Q.13 Write main advantage of new spinning systems.

Q.14 What is the purpose of opening in rotor spinning machine ?

Q.15 Name basic elements of rotor spinning assembly ?

Q.16 Name important parts of air-jet spinning machine.

Q.17 Give two specific uses of friction spun yarn.

Q.18 Give the range of yarn count spun on air jet spinning .

Q.19 Write two important uses of air-jet textured yarns .

Q.20 For which filament heat setting is done ?

SECTION-C

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

Q.21 Explain the raw material requirement for air jet Spinning

Q.22 What are the main causes responsible for advent of new Spinning systems .

Q.23 Write down the sequence of processes involved in rotor Spinning mill.

Q.24 Explain the functions of transport tube with diagram in rotor Spinning