Register Number:……..

KUMARAGURU
college of technology
character is life

B.TECH. DEGREE EXAMINATIONS: APRIL / MAY 2023

(Regulation 2017)

Third Semester

FASHION TECHNOLOGY

U17FTT2001: Yarn Technology

COURSE OUTCOMES

CO1: Describe the process flow in short staple spinning and also explain the different techniques in yarn manufacturing.

CO2: Outline sequentially the processes involved in spinning long staple worsted yarns, and describe the working of various machines used

CO3: Acquire knowledge on post spinning operations and machine used for the process

CO4: Compare the quality characteristics of different yarns

CO5: Describe the various post spinning processes for spun yarns

CO6: Acquire knowledge on sewing threads and various specialty yarn manufacturing techniques.

Time: Three Hours **Maximum Marks: 100**

Answer all the Questions:-
PART A (10 x 2 = 20 Marks)
(Answer not more than 40 words)

1.	List the objectives of ginning.	CO1	[K_2]
2.	Compare carded sliver and combed sliver.	CO1	[K_4]
3.	Explain the importance of shearing.	CO2	[K_2]
4.	Analyze the importance of scouring in woolen spinning.	CO2	[K_3]
5.	Explain the principle of rotor spinning.	CO3	[K_2]
6.	List the properties of Friction spun yarn.	CO3	[K_4]
7.	List the advantages of TFO.	CO4	[K_4]
8.	Explain how yarn faults are identified with an example.	CO4	[K_2]
9.	Analyze the importance of waxing in sewing thread manufacture.	CO5	[K_4]
10.	Develop a flow chart for the manufacture of cotton sewing thread.	CO6	[K_6]

Answer any FIVE Questions:-
PART B (5 x 16 = 80 Marks)
(Answer not more than 400 words)

11.	Develop a flow chart for a cotton spinning and highlight the objectives of each process.	16	CO1	[K_6]

12.		Develop a flow chart for a worsted spinning and highlight the objectives of each process.	16	CO2	[K_6]
13.	a)	Explain in detail the working of rotor spinning system with neat sketch.	8	CO3	[K_2]
	b)	Compare characteristics of yarns made from different spinning systems.	8	CO3	[K_4]
14.	a)	Explain the principle of working of two for one twister with neat sketch.	8	CO4	[K_2]
	b)	Discuss in detail the package faults (cone) in winding and their identification.	8	CO4	[K_2]
15.	a)	Classify sewing thread and also develop a process sequence for the manufacture of cotton/polyester sewing thread.	8	CO5	[K_4]
	b)	Discuss in detail the essential quality requirements of sewing thread.	8	CO5	[K_2]
16.	a)	Classify mélange yarn and explain about its types and application.	8	CO6	[K_6]
	b)	Classify fancy yarn and explain the properties of any four types of fancy yarn.	8	CO6	[K_4]

****