

Model Question Paper-1/2 with effect from 2022-23 (CBCS Scheme)

USN

--	--	--	--	--	--	--	--	--	--

Fourth Semester B.E. Degree Examination Spinning Technology-II

TIME: 03 Hours

Max. Marks: 100

Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

Module -1			*Bloom's Taxonomy Level	Marks
Q.01	a	Why even number of passages are used in between card and comber?. Explain with reference to hook theory	L2	8
	b	Describe the passage of material through a comber with a neat diagram	L2	8
	c	What is detachment setting in comber machine	L1	4
OR				
Q.02	a	Describe the combing cycle with the help of index numbers	L2	8
	b	List the salient features of present day comber to get higher productivity	L1	8
	c	What is noil and how it is determined	L2	4
Module-2				
Q. 03	a	State the important objects of speed frame	L1	4
	b	Explain the 4/4 drafting system used in speed frame and mention the various drafts	L2	8
	c	Design the flyer used in speed frame and mention their each part	L2	8
OR				
Q.04	a	Compare the bobbin leading and flyer leading mechanism in speed frame, which mechanism commonly used.	L2	8
	b	Solve the hank of sliver fed to speed frame if roving hank delivered is 1.2 and draft in the machine is 18. Also calculate twist in roving if spindle speed is 1400rpm and delivery speed is 1280 inches per minute.	L3	8
	c	Write a note on change points in speed frame machine	L2	4
Module-3				
Q. 05	a	Define the term main draft, break draft and draft constant in ring frame drafting system	L1	4
	b	Explain the twisting mechanism in ring frame, what is actual and practical twist in the yarn.	L2	8
	c	Describe the various types of built in ring frame with suitable diagram	L2	8
OR				
Q. 06	a	Explain on traveler number in direct and indirect system	L2	8
	b	Give the flow chart and explain the manufacture of traveler.	L2	8
	c	What is traveler loading and fly off in spinning machine	L1	4
Module-4				
Q. 07	a	State the important features of modern ring frame	L1	8
	b	Calculate the production of ring frame for a shift of 8hours at 10. /. Stoppages, speed of spindle is 15000 rpm, hank of roving fed is 1.4 with a draft 43. The twist multiplier used is 3.5.spindles per machine is 320	L3	8

	c	Mention the various defects in ring frame packages	L1	4
OR				
Q. 08	a	Give the passage of material through dry doubling machine	L2	8
	b	Draw different threading systems used in wet doubling machine	L2	8
	c	Mention the various types of fancy yarns	L1	4
Module-5				
Q. 09	a	Describe the principles in open end spinning with line diagram.	L2	8
	b	Explain on initial drafting, transport zone, twisting and yarn formation in rotor spinning machine	L2	8
	c	Write various applications of open end yarns.	L2	4
OR				
Q. 10	a	Write the different of opening and rotors with figures.	L2	8
	b	Mention the important features of modern open end spinning machine	L1	8
	c	Calculate the draft in open end machine, the linear density of yarn delivered is 60 tex and hank of material fed is 0.11	L3	4