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BE - SEMESTER- V (New) EXAMINATION - WINTER 2019			
Subject Code: 2152901 Date: 25/11/2019			1/2019
Subject Name: Yarn Manufacturing-III			
Time: 10:30 AM TO 01:00 PM Total Marks: 70			
Instructions:			
	1.	Attempt all questions.	
	2.	Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	MADKS
0.1	(-)	Drow a next sketch of passage of material on vine frame and name the	MAKKS
Q.1	(a)	Draw a near sketch of passage of material on ring frame and name the	03
	(b)	parts. What is spinning geometry?	04
	(0)	How is varn tension maintained at the ring frame?	07
	(C)	now is yain tension manualied at the mig nume.	07
0.2	(a)	What are the objectives of builder mechanism on ring frame?	03
	(b)	Compare the compact yarns and conventional ring spun yarns.	04
	(c)	State the objectives of ply twisting, explain the concept of balance twist	07
		and mention the limitations of ring doubling system.	
		OR	
	(c)	How is auto doffing carried out at ring frame? Explain the concept in	07
		detail.	
Q.3	(a)	Write briefly about the spinning triangle.	03
	(\mathbf{b})	How is balloon shape controlled during ring spinning?	04
	(C)	state the objectives of drafting system and explain its construction with a	07
		OR OR	
0.3	(a)	Write briefly about the creels on ring frame	03
ζ.υ	(b)	What are the factors affecting the end breaks at ring frame?	04
	(c)	State the functions of spindle and write in detail about spindle drive.	07
Q.4	(a)	What are the functions of ring and traveler?	03
	(b)	What is e-drafting?	04
	(c)	Write in detail about the production of sewing threads.	07
OR			
Q.4	(a)	What are the advantages of two-for-one twisting over ring doubling?	03
	(b)	Which are the different ring shapes? Write briefly about the ring material.	04
	(C)	Name the different types of fancy yarns and explain the production of any two with poet destables	07
05	(a)	two with near sketches. How is running in of new rings carried out?	03
Q.3	(\mathbf{a})	Write briefly about the drive to the ring spinning machine	03
	(U) (C)	State the advantages of compact spinning and explain the working with a	07
		neat sketch.	
OR			
Q.5	(a)	What is the importance of traveller mass?	03
-	(b)	How is production calculated at ring spinning machine?	04
	(c)	Write in detail about the recent developments in ring spinning.	07
