Seat No.: _		Enrolment No.	
	BE	JJARAT TECHNOLOGICAL UNIVERSIT - SEMESTER-V(New) • EXAMINATION – WINTER 20	)16
Subject C			e:24/11/2016
Subject N Time: 10: Instructions	tal Marks: 70		
1. 2.	Attem Make	pt all questions. suitable assumptions wherever necessary. es to the right indicate full marks.	
Q.1	1	Short Questions In tape drive to the spindles, speed variation of % do occur and are accepted.	14
	2	Travellers which weigh less than 10 grains are called travellers.	
	3	Cots of hardness levels of the order of to are mostly used at back rollers.	
	4	Temperature of oil in the spindle bolster is usually0F above that of room temperature.	
	5	If TM is 4.0 and yarn count is 36s Ne, what will be TPI in Yarn?	
	6 7	What type of yarn is obtained by dry doubling? Write the equation to calculate resultant count of double yarn?	
	8	The snarling will be more in case of which yarn s/z or z/z?	
	9	If spindle RPM is 14,000 and yarn TPI is 20, calculate surface speed of front roller in inches/min.	
	10	If a TFO spindle is rotating at 10,000 rpm and surface speed of delivery roller is 1000 inches/min, what will be the TPI in yarn?	
	11	Compact spinning aims at eliminating	
	12	Which compact spinning system does not use suction?	
	13	Usually, the traveller used for doubling are than traveller for Ring frame.	
	14	Explain what is a cable yarn.	
Q.2	(a)	State various applications of double yarn.	03
	<b>(b)</b>	Discuss the effect of various parameters on strength and elongation of double yarn.	04
	(c)	Explain the mechanism for building the base at Ring frame with neat sketch.	07
	(c)	OR Describe the method of Ring manufacturing in detail.	07
Q.3	(a)	Enlist the points to be considered before selecting the traveller profile.	03
	<b>(b)</b>	Explain the following terms with reference to traveller: (i) Traveller Count (ii) Centre of symmetry.	04
	(c)	Discuss the implications of spinning triangle with sketch.  OR	07

Q.3	(a)	Describe the construction of spindle assembly of ring frame showing different parts.		
	<b>(b)</b>	Describe the functions of different parts of spindle assembly of ring frame.	04	
	(c)	With a neat diagram, explain tangential belt drive at ring frame.	07	
Q.4	(a)	Explain why doubling is not carried out using ring bobbin directly.	03	
	<b>(b)</b>	State the advantages of TFO.	04	
	(c)	With a neat sketch describe the working of TFO.  OR	07	
0.4	(a)	<del></del>	02	
<b>Q.4</b>	(a)	State the basic objects of doubling.	03	
	<b>(b)</b>	Discuss manufacturing of Slub yarn briefly.	04	
	<b>(c)</b>	With a neat sketch describe wet doubling.	07	
Q.5	(a)	Describe manufacturing of loop yarn briefly.	03	
	<b>(b)</b>	Explain the basic principle of compact spinning with suitable sketch.	04	
	<b>(c)</b>	Describe Comfor spinning system with neat sketch.	<b>07</b>	
		OR		
Q.5	(a)	Describe manufacturing of Melange yarn briefly.	03	
-	<b>(b)</b>	Discuss factors affecting end breaks at Ring frame.	04	
	(c)	Describe features of modern ring frame in detail.	07	
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