

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V (NEW) EXAMINATION – SUMMER 2019****Subject Code: 2152901****Date: 06/06/2019****Subject Name: Yarn Manufacturing-III****Time: 02:30 PM TO 05:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

	MARKS
Q.1 (a) State the objectives of ringframe.	03
(b) Compare the compact yarns and conventional ring spun yarns.	04
(c) Write a short note on Two For One Twisters.	07
Q.2 (a) Discuss in brief about the methods of ply twisting.	03
(b) Give the classification of fancy yarns.	04
(c) Write a short note on production of sewing threads.	07
OR	
(c) Explain the ring doubling machines with the limitations of the system.	07
Q.3 (a) Write briefly about the creel at ringframe.	03
(b) Draw the passage of material through ringframe.	04
(c) Discuss in detail about the spinning geometry at ringframe.	07
OR	
Q.3 (a) State the functions of ring at the ringframe.	03
(b) Write briefly about the construction of the spindle.	04
(c) Discuss in detail about the methods of maintaining uniform yarn tension at ring frame.	07
Q.4 (a) Write briefly about the travelers of the ringframe.	03
(b) Discuss the recent modifications in the design of drafting system of ringframe.	04
(c) Explain the concept of compact spinning.	07
OR	
Q.4 (a) State the advantages of doubling.	03
(b) Discuss briefly about the fibre lubrication on the ring.	04
(c) Write a short note on drive to the machine of ringframe.	07
Q.5 (a) What is a grandrelle yarn?	03
(b) Write briefly about the chenille yarn.	04
(c) Discuss the modern developments in TFO machines.	07
OR	
Q.5 (a) Write briefly about the mélange yarn.	03
(b) State the formula for calculation of production at ringframe	04
(c) Write a short note on automation in ringframe.	07
