

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-V (NEW) EXAMINATION – WINTER 2018****Subject Code:2152901****Date:27/11/2018****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.

		MARKS
Q.1	(A) What Are The Objects Of Ring Frame Machine	3
	(B) Write On The Difference Between Dry And Wet Doubling Systems.	4
	(C) Draw Passage Of Yarn & Explain The Function Of Each Part Of The Ringframe Machine	7
Q.2	(A) What Is The Role Of Traveller,Name Different Type Of Traveller	3
	(B) Explain The Construction Of The Spindle At Ring Frame.	4
	(C) Explain Spinning Geometry With A Neat Sketch.	7
	OR	
	Which Factors Contribute To The Balloon Collapse On A	
	(C) Ringframe? State Different Ways Adopted To Minimize It On Modern Ring Frames And Mention Their Benefits And Limitations.	7
Q.3	(A) What Is S Twist And Z Twist Yarn And How To Adjust It On Machine.	3
	(B) Discuss The Significance Of Traveller Mass.	4
	(C) What Is Compact Spinning? How It Gives Value Addition To Quality.	7
	OR	
Q.3	(A) What Is The Importance Of Spacer Bar	3
	(B) Write Short Note About Creel Of Ring Frame Machine.	4
	(C) Explain With Neat Sketch Of Mechanism Used For Building The Cop.	7
Q.4	(A) Discuss The Importance Of Anti Wedge Ring.	3
	(B) Discuss Manufacture Of Two-Colour Spot Yarn.	4
	(C) Describe The Methods Of Manufacture Of Snarl Yarns, Loop Yarns And Two Colour Flake Yarns.	7

OR

- Q.4** (A) Give The Formula For Calculation Of Production In Kgs For Ringframe Machine. **3**
- (B) What Is Cable Yarn? Discuss The Method Of Production Of 6-Cord Wewing Thread With Necessary Particulars. **4**
- (C) Discuss In Brief About Reducing End Breakages In Ring Frame. **7**
- Q.5** (A) Give The Characteristics Of A Good Ring. **3**
- (B) Discuss The Methods Of Maintaining Uniform Yarn Tension At Ringframe **4**
- (C) Write On The Concept Of Autodoffing Employed On Ring Spinning Machine **7**

OR

- Q.5** (A) State The Limitations Of Ring Doubling Systems **3**
- (B) Explain How Two For One Twisting Is Advantageous Over Ring Doubling. **4**
- (C) Name Different Types Of Spindle Driving Systems Used On Ringframe And Write Briefly On Each. **7**

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