

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE- SEMESTER-III (NEW) EXAMINATION – WINTER 2020****Subject Code:3132902****Date:10/03/2021****Subject Name:Yarn Manufacture I****Time:10:30 AM TO 12:30 PM****Total Marks:56****Instructions:**

1. Attempt any FOUR questions out of EIGHT questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		<b>Marks</b>
<b>Q.1</b>	(a) State the objects of Carding?	<b>03</b>
	(b) Write the name of Fine cleaning Machine and draw the figure of vertical opener	<b>04</b>
	(c) With suitable sketch explain construction and working of Saw Gin	<b>07</b>
<b>Q.2</b>	(a) State the objectives of Ginning	<b>03</b>
	(b) Distinguish between metallic wire clothing and flexible wire clothing.	<b>04</b>
	(c) Describe Knife roller gin with suitable figure	<b>07</b>
<b>Q.3</b>	(a) Mention the objectives of Blowroom	<b>03</b>
	(b) Discuss on processing of manmade fibre at blowroom	<b>04</b>
	(c) Explain construction, working of Scutcher section in blowroom with sketch.	<b>07</b>
<b>Q.4</b>	(a) State auxiliary equipment used in blowroom	<b>03</b>
	(b) Explain Krischner Beater with figure.	<b>04</b>
	(c) Explain piano feed mechanism with a suitable figure	<b>07</b>
<b>Q.5</b>	(a) Write short note on quality of laps	<b>03</b>
	(b) Write short note on grid	<b>04</b>
	(c) State working principle of Multi Mixer with figure	<b>07</b>
<b>Q.6</b>	(a) Discuss importance of card setting.	<b>03</b>
	(b) Write a short note on “Heal and Toe arrangement” with figure.	<b>04</b>
	(c) Discuss working principle of Chute feed system with suitable figure.	<b>07</b>
<b>Q.7</b>	(a) Give the formula to calculate production rate of Card sliver in kg/shift.	<b>03</b>
	(b) Explain carding action and stripping action along with suitable diagram.	<b>04</b>
	(c) Explain recent development at Licker-in with suitable figure	<b>07</b>
<b>Q.8</b>	(a) What is Tandem card?	<b>03</b>
	(b) Explain principle of open loop and close loop Autoleveller.	<b>04</b>
	(c) Discuss the common defects and remedies in card sliver	<b>07</b>

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