FirstRanker.com

www.FirstRanker.com

Enrolment.FirstRanker.com

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER- IV (New) EXAMINATION – WINTER 2019			
Subject Code: 2142603 Date: 16/12/2			019
Subject Name: Rubber engineering			
Time: 10:30 AM TO 01:00 PM Total Marks: 70			
Instructions:			
		empt all questions.	
		Make suitable assumptions wherever necessary.	
		ures to the right indicate full marks.	
			MARKS
Q.1	<b>(a)</b>	•	03
		List out any two operations carried out by calendar.	04
	(c)		07
		with respect to calender.	
0.0	$(\cdot)$		02
Q.2	<b>(a)</b>		03
	( <b>b</b> )	Farrel Continuous Mixer (FCM). Write down the limitations of Transfer Mix.	04
	(b) (c)	List out the operating variables for internal mixer. Discuss any three	04
	(C)	in detail.	07
		OR	
	(c)	Compare single geared mixing mill with double geared mixing mill.	07
Q.3	(a)		03
C C	<b>(b)</b>		04
	(c)	Explain 'Fish Tail Head' of extruder.	07
		OR	
Q.3	<b>(a)</b>		03
	<b>(b)</b>		04
		Ratio(iv)Compression Ratio	
0.4	(c)		07
Q.4	(a)		03
		cause and remedy.	
	<b>(b)</b>	Short note on 'mould releasing agents'.	04
	(c)	Explain the classification of mould according to their operations.	07
<b>.</b>		OR	
Q.4	(a)	Define the terms: (i) Cavity (ii) Sprue bush (iii) Runner.	03
	(b)	Explain the reasons and remedies for air trap.	04
0.5	$(\mathbf{c})$	Explain the reasons and remedies for under cure.	07 03
Q.5	(a) (b)	Write down the causes and remedies of sponging.	03 04
	(b) (c)	Explain the working of reciprocating type injection unit. Write a short note on Bag-O-Matic press.	04 07
	$(\mathbf{C})$	OR	07
Q.5	(a)	Consistent part quality is difficult to achieve in	03
<b>X</b> ••	(4)	Case of transfer moulding- why?	
	<b>(b)</b>	Give the advantages of injection moudling process.	04
	$(\tilde{c})$	Write a short note on planetary mixer.	07
	. /	*****	