Seat N	No.:		-
		GUJARAT TECHNOLOGICAL UNIVERSITY	
•		BE - SEMESTER-IV • EXAMINATION – WINTER 2013 ode: 142603 Date: 26-12-2013	
Time		ame: Rubber Engineering 30 pm - 05.00 pm Total Marks: 70	
THIS CT	1. A 2. N	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q. 1	(a)	What do you mean by topping? Which methods are available for it? Explain any one method in detail.	07
Q. 1	(b) i ii	Answer the following How flash and spew removal is carried out by low temperature tumbling? Write down the main sources of potential danger, typical causes of accident and method of guarding for internal mixer.	04 03
Q. 2	(a)	Discuss the following features with respect to mixing mill: (i) Ancillary Requirements (ii) Safety Devices	07
Q. 2	(b) i ii	Answer the following Give the advantages and disadvantages of batch mixing. Write in brief about transfer mix.	04 03
Q. 2	(b)	OR Discuss in detail about the various stages of mixing process.	07
Q. 3	(a)	Write a short note on vacuum extruder.	06
Q. 3	(b) i ii	Answer the following Differentiate the ram extruder and screw extruder. Define the term mould. Also give the general classification of mould. OR	05 03
Q. 3	(a)	Discuss in detail about the problems associated with extrusion process.	07
Q. 3	(b) i ii	Answer the following Write a brief note on extruder as strainer. Write a short note on mould releasing agents.	03 04
Q. 4	(a)	List the different types of compression mould. Discuss any two in detail.	07
Q. 4	(b) i	Answer the following Write down the causes and remedies for following moulding problems: (i) Poor Knitting (ii) Pebbling	04
	ii	Define the following terms: (i) Transfer Pot (ii) Sprue (iii) Runner	03

OR

Write down the causes and remedies for following moulding problems: (i)

Discuss in detail about the types of transfer moulding.

Define the following terms: (i) Parting Line (ii) Sprue Bush

Q. 4

Q. 4

(a)

(b)

i

ii

Answer the following

Backrinding (ii) Undercure

02

07

05

05
02
07
07
05
02
