Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

ME – SEMESTER II (NEW) – • EXAMINATION – SUMMER 2016

Subject Code: 2722410 Date: 25/05/2016

**Subject Name: Additives and Compounding** 

Time: 10:30 am to 01:00 pm Total Marks: 70

**Instructions:** 

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

Q-1	Write note on Antioxidants and give its mechanism of reaction.	
Q-2	(a) What are Lubricants give its different types	07
	(b) What are the typical applications of lubricants	07
	OR	
	(b) Short note on : Single Screw extruder	07
Q-3	What are Fire Retardant give mechanisms for action of non-halogenated fire retardant?	14
	OR	
Q-3	Describe workings Principles with diagrams for twin screw extruder.	14
Q-4	What are colorants? Give its type and working principle	14
	OR	
Q-4	How plastic gears are useful? Explain briefly.	14
Q-5	Short note (Any Two) a. High Speed Mixture,	14
	b. Banbury Mixture,	
	c. Planetary Mixture	