Seat No.: _____

Enrol	lment	No.	

		GUJARAT TECHNOLOGICAL UNIVERSITY ME - SEMESTER-IV • EXAMINATION – SUMMER 2015 Subject Code: 743001 Date: 01/05/2015	
		Subject Name: CLEANER PRODUCTIONTime: 2:30 pm to 5:00 pmTotal Marks: 70Instructions:1. Attempt all questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.	
1	a b	Describe prerequisite of cleaner production in detail Discuss the difference between cleaner production and cleaner technology.	7 7
2	a b	What are the barriers to cleaner production?Explain internal barriers. Write a short note onô Steps for sustainable development in Gujarat.	7 7
	b	OR Give an example of cleaner production in dairy industry.	7
3	a	Write list of techniques that are not considered as CP-Explain them in detail OR	14
3	a b	Differentiateô conventional production, cleaner production and clean production. Explain-Energy audit as a part of cleaner production.	7 7
4	a b	Discuss the benefits of cleaner production in detail. Give an example of cleaner production in pulp and paper producing industry. OR	7 7
4	a b	Explain product modification as a one of the technique of cleaner production. Explain financial analysis of cleaner production.	7 7
5	a	Explain in detail CP methodology. OR	14
5	a b	Write a short note on Good Housekeeping. Write a short note on Green house effect.	7 7