Seat No.: _____ **Enrolment No._____**

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VII (NEW) - EXAMINATION – SUMMER 2017

Subject Code: 2172805 **Date: 09/05/2017**

Subject Name: Ecological Aspects in Textile Processing

Time: 02.30 PM to 05.00 PM **Total Marks: 70**

Instructions:

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

Q.1	**(a)**	**Answer the following OBJECTIVE questions**:	**07**
	i.	_____metals are listed under OKOTEX std 100 as potential hazard.	
	ii.	Enlist some popular eco-labels.	
	iii.	What is meant by sustainable developments?	
	iv.	Which is the most effected dye class found to be harmful?	
	v.	Give full form of CETP.	
	vi.	_____pigments have been identified eventually under the banned category.	
	vii.	_____kg of water is used for processing of 1 kg of cotton.	
	(b)	Discuss water impurities & its impact on processing.	**07**
Q.2	**(a)**	Give eco-standards for textiles under different eco-labels.	**07**
	(b)	Write a short note on ISO-14000.	**07**
		OR	
	(b)	In which four categories textile waste is classified. Discuss any two of them.	**07**
Q.3	**(a)**	Describe various government support for environment protection.	**07**
	(b)	Give various approaches to solve the environmental problems.	**07**
		OR	
Q.3	**(a)**	Discuss the clean technology for sustainable development.	**07**
	(b)	Write a detailed note on German Ban.	**07**
Q.4	**(a)**	Discuss the detrimental effects of heavy metals in textiles.	**07**
	(b)	Enlist the toxic and harmful substances used in textile industry.	**07**
		OR	
Q.4	**(a)**	Write few words on secondary effluent treatment	**07**
	(b)	Depict the chemistry and hazardous behavior of pentachloro phenol (PCP) and the reason for its ban in textiles.	**07**
Q.5	**(a)**	Describe characteristics of process waste water of textile mills.	**07**
	(b)	Write a short note on formaldehyde release.	**07**
		OR	
Q.5	**(a)**	Give a critical review of pesticides in fiber/yarn.	**07**
	(b)	Describe about pollution from areas other than chemical processing.	**07**

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