

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VII • EXAMINATION – WINTER • 2014

Subject Code: 172805**Date: 29-11-2014****Subject Name: Ecological aspects in Textile Processing****Time: 10:30 am - 01:00 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 in short: **07**
1. Give full form of CETP.
 2. Enlist some popular eco-labels.
 3. ISO-14000 stands for What?
 4. Maximum permissible level of TDS is _____ & water hardness _____ in wet processing of textiles.
 5. Enlist some biological treatments of water-wastes.
 6. How many dyes are red-listed by Indian government?
 7. _____metals are listed under OKOTEX std 100 as potential hazard.
- (b) In which four categories textile waste is classified. Describe any two of them. **07**
- Q.2** (a) Give a list of harmful aromatic amines present in azo-dyes. (forbidden / **07**
banned)
- (b) Describe in detail about Environmental Management systems. **07**
- OR**
- (b) What is meant by sustainable development? **07**
- Q.3** (a) Describe various government support for environment protection. **07**
- (b) List of presently known chemicals / auxiliaries commonly used in cotton **07**
textile processing, which are eco-friendly.
- OR**
- Q.3** (a) Give a list of harmful aromatic amines present in azo-dyes. (forbidden / **07**
banned)
- (b) Write a note on 'Towards eco-friendly processing'. **07**
- Q.4** (a) Discuss major criteria specified by eco-labels for eco-processing. **07**
- (b) Discuss pollution from areas other than chemical processing. **07**
- OR**
- Q.4** Discuss future developments in eco-friendly chemical processing. **14**
- Q.5** Write a short note on any TWO: **14**
- (a) Solution to environmental problems
 - (b) Heavy metals in textiles.
 - (c) Global warming
 - (d) Characteristics of waste water of textile industries.
