



Name :

Roll No. :

Invigilator's Signature :

**CS/M.Tech(MCP)/SEM-2/MCP-202/2013
2013**

ECOLOGY AND TEXTILE WASTE MANAGEMENT

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

Answer any five questions. $5 \times 14 = 70$

1. What do you understand by eco-labelling and eco-auditing ?

What do you understand by OEKOTEX 100, OEKOTEX 1000 and OEKOTEX 100 plus ? How are these standards achieved by an organization ?

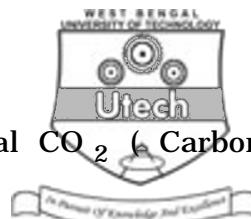
4 + 7 + 3

2. What do you understand by BOD, COD and TDS ? Explain the principles behind the test methods used to measure all the three parameters.

5 + 9

30169 (M.Tech)

[Turn over



3. What do you understand by supercritical CO₂ (Carbon dioxide) ? How is this being used to dye polyester ? What is the advantage of using supercritical carbon dioxide to dye polyester ? In what way is the fabric dyed through this route better than the fabric dyed conventionally ?
4. What do you understand by greenhouse effect ? What are the major gases presponsible for greenhouse effect ? What are the adverse impacts of greenhouse effect ? How to control it ? 3 + 3 + 4 + 4
5. Discuss in detail how you can reduce pollution in textile dyeing process by knowing the sources of pollution and taking appropriate measures.
6. What are the different methods of colour removal from textile waste effluent streams ? Write briefly about any two methods. 4 + 10



7. Write briefly about the major natural dyes available for textile usage and their sources. What are the advantages of using natural dyes over synthetic dyes ?
8. What are the challenges for the growth of natural dye as a significant contributor for textile dyeing ?

6 + 4 + 4

=====