

**UTTARAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)****उत्तराखण्ड मुक्त विश्वविद्यालय हल्द्वानी (नैनीताल)****M.Sc. Environmental Science (MSCEN-13)****IIND YEAR ASSIGNMENT****Last Date of Submission** 15 May

जमा करने की अन्तिम तिथि: 15 मई

Course Title: Water and Waste Water Treatment Technologies**Course Code:** ES 553**Year:** 2013-14**Maximum Marks:** 40**Section 'A'**

Section 'A' contains 08 short answer type questions of 5 marks each. Learners are required to answer 4 questions only. Answers of short answer-type questions must be restricted to 250 words approximately.

Briefly discuss the following:

- 1- Explain 'Sea' and 'Reservoir' as source of water.
- 2- Describe 'Physical Test' to know the quality of water.
- 3- What do you understand by 'Sedimentation' and 'Filtration'?
- 4- Describe 'Septic Tank'.
- 5- What is composting? In what way, it helps in maintaining quality of environment?
- 6- Explain trickling filter.
- 7- What is nitrification? How can it be achieved in wastewater treatment?
- 8- What is industrial audit? How the audit team is selected?

Section 'B'

Section 'B' contains 04 long answer-type questions of 10 marks each. Learners are required to answer 02 questions only.

- 9- Describe cleaner technologies in industrial wastewater treatment.
- 10- What is the sanitary landfill? Describe its role in maintaining environmental quality in urban sector.
- 11- What is 'effluent'? Explain oxygen ditch.
- 12- What are the characteristics of 'industrial wastes'? List most toxic chemical pollutants of electroplating and fertilizer industries.