Total Pages : 3

Roll No.

ENSE-655/EVS-604

M.Sc. ENVIRONMENTAL SCIENCE (MSCES) (Clean Technologies)

3rd Semester Examination, Session December 2024

Time : 2:00 Hrs.

Max. Marks : 70

Note :- This paper is of Seventy (70) marks divided into Two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given therein. *Candidates* should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

Section-A

(Long Answer Type Questions) 2×19=38

Note :- Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

A-1027/ENSE-655/EVS-604 (1) P.T.O.

- Define the terms "Environment" and "Technology". Discuss the effects of technology on Environment.
- 2. Define In-situ remediation technology. Discuss about some In-situ remediation technologies.
- 3. Describe the process of waste water treatment.
- 4. Give a detail account of Physico-chemical remediation techniques for metal-polluted water and soil.
- 5. What do you understand by ECOSAN ? Describe about reuse of ECOSAN products.

Section-B

(Short Answer Type Questions) 4×8=32

- *Note* :- Section 'B' contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.
- Define the Sustainability. Write about sustainability issues in India.
- 2. Write note on followings :
 - (a) Incineration
 - (b) Biofilteration

A-1027/ENSE-655/EVS-604 (2)

- 3. Write about natural and enhanced attenuation.
- 4. Discuss the process of sludge management.
- What do you understand by phytomanagement ? Describe its uses in environmental management.
- 6. Differentiate between municipal, agricultural and industrial solid waste.
- 7. Write a note on "Green Chemistry"
- 8. Give a note on Microbial fuel cell technology.
