

ESE 512

Third Semester M.Sc. Degree Theory Examination, Dec. 2018/Jan. 2019 (CBCS)

ENVIRONMENTAL SCIENCEWaste Management (Open Elective)

Time: 3 Hours Max. Marks: 70

Note: Answer all the Parts and draw neat sketches wherever necessary.

PART – A

- I. Write short notes on any four of the following (not exceeding 2 pages each).(4×4=16)
 - 1) Write a note on drinking water standards.
 - 2) Write a note on vermin-composting.
 - 3) Differentiate sanitary and secured landfill.
 - 4) Explain used of crop waste.
 - 5) Define bioreactors and add a note on its use.
 - 6) Explain microbiological treatment of solid waste.

PART - B

- II. Write explanatory notes on any five of the following (not exceeding 3 pages each).(5×6=30)
 - 7) Explain recycling and reuse of solid waste.
 - 8) Explain biological treatment of liquid waste.
 - 9) Write a note on effects of solid waste.
 - 10) Explain the effects of hazardous waste.

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- 11) Write a note on municipal waste management rules.
- 12) Discuss the waste management in pharmaceutical industry.
- 13) Explain aerobic treatment of sewage.

PART - C

- III. Answer any two of the following (not exceeding 8 pages each). (2×12=24)
 - 14) Discuss treatment and disposal methods of biomedical waste.
 - 15) Explain solid waste collection, segregation and disposal methods of municipal solid waste management in India.
 - 16) Explain radioactive waste treatment and disposal techniques.