

M.Sc Sem.-2 Examination

P - 408

Environmental Science

June 2022

Time : 2-00 Hours]

[Max. Marks : 50

Instructions: All Questions in **Section I** carry equal marks
 Attempt any **THREE** Questions in **Section I**
 Questions IX in **Section II** is **COMPULSORY**

Section I

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|--------|---|---|
| Q I | A. Explain Landfill in detail. | 7 |
| | B. How municipal sludge is incinerated? | 7 |
| Q II | A. Enlist and explain size reduction techniques of waste management. | 7 |
| | B. How to recycle waste? explain the collection of recyclables. | 7 |
| Q III | A. State environmental factors and operational factor affecting composting. | 7 |
| | B. Write a short note on dewatering centrifuge | 7 |
| Q IV | A. How to collect and treat municipal and hospital waste? | 7 |
| | B. What are the preventive measures of nuclear pollution? | 7 |
| Q V | A. Explain the method of magnetic separation and enlist types of baler. | 7 |
| | A. Write a note on different kinds of batteries found in waste. | 7 |
| Q VI | A. Short note on baling | 7 |
| | B. Give a brief account on Hazardous waste minimization technique | 7 |
| Q VII | A. Describe Treatment, storage and disposal of hazardous waste. | 7 |
| | B. Explain biological treatment employed to treat hazardous waste. | 7 |
| Q VIII | A. Write a note on Disc bowl centrifuge | 7 |
| | B. Short note on Liner system of MSW. | 7 |

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| Q IX | MCQs | 8 |
| 1 | The best method of disposal of refuse to ensure complete destruction of pathogenic bacteria by | 1 |
| A | Composting | |
| B | Landfill | |
| C | Pulverisation | |
| D | Incineration | |
| 2 | As per CPCB, how much solid waste is generated per capita per day in large cities? | 1 |
| A | 0.1 kg | |
| B | 2.8 kg | |
| C | 0.5 kg | |
| D | 0.2 kg | |
| 3 | State the full form of MSW. | 1 |
| A | Municipal Solid Watch | |
| B | Multiple Solid Waste | |
| C | Municipal Slimy Waste | |
| D | Municipal Solid Waste | |
| 4 | Which instrument is used for the compaction of waste? | 1 |
| A | Balers | |
| B | Magnetic separators | |
| C | Flail mill | |
| D | Glass crushers | |
| 5 | The WHO classified medical waste into _____ category. | 1 |
| A | 5 | |
| B | 4 | |
| C | 3 | |
| D | 2 | |
| 6 | Which of the following is biodegradable waste? | 1 |
| A | Paper | |
| B | Food | |
| C | Polythene bags | |
| D | Synthetic fibres | |
| 7 | _____ is the liquid that passes through solid waste and extracts suspended impurities from it. | 1 |
| A | Leachate | |
| B | Sludge | |
| C | Distilled Water | |
| D | Municipal waste | |
| 8 | Which of the following is not the MSW ? | 1 |
| A | Ashes | |
| B | Radioactive waste | |
| C | Food waste | |
| D | Rubbish | |

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