**ST JOSEPH’S UNIVERSITY, BENGALURU -27**

Registration Number:

Date & Session:

**M.Sc. ENVIRONMENTAL SCIENCE AND SUSTAINABILITY– I SEMESTER**

**SEMESTER EXAMINATION: OCTOBER 2023**

**(Examination conducted in November/December 2023)**

**ES 7322 – EARTH SCIENCES AND SOLID WASTE MANAGEMENT**

**(For current batch students only)**

**Time: 2 Hours Max Marks: 50**

**This paper contains ONE printed page and THREE parts**

***Instruction: Draw diagrams wherever necessary***

**PART – A**

**Answer any FIVE of the following 2m X 5q = 10m**

1. Define the law of cross cutting.
2. What is glaciation? Mention one Indian glacier.
3. List the forms of soil water.
4. Mention any four characteristics of hazardous waste.
5. Mention the causes of soil contamination.
6. What are Microplastics?
7. What is bio-stimulation?

**PART – B**

**Write explanatory notes on any FOUR of the following 5m X 4q = 20m**

1. Volcanism and Volcanic products
2. Types of soils
3. Irrigation as a source of soil contamination
4. Biomedical wastes
5. E-waste recovery
6. Composting

**PART – C**

**Answer ALL of the following 10m X 2q = 20m**

1. Discuss the endogenic processes.

**OR**

 *'Soil is a dynamic ecosystem'* - Substantiate.

1. Develop a waste audit plan for a smart city.

**OR**

Provide a detailed account on land-farming.