

Date: 8-12-2022 ( 1pm )

Registration number:

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

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

**SEMESTER EXAMINATION: OCTOBER 22**

(conducted in DECEMBER 2022)

**ESS 7322: EARTH RESOURCES AND SOLID WASTE MANAGEMENT**

**TIME: 2 HOURS MAX MARKS: 50**

**This question paper contains ONE printed side and THREE parts**

**Draw diagrams and write examples wherever necessary**

**PART – A**

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

1. Define stratigraphy. List its types.
2. What are ‘Folds’ and ‘Faults’ in Geology?
3. Define accessory minerals? Cite two examples.
4. What are biofertilizers? Cite two examples.
5. List the significance of soil water.
6. Define microplastics. Cite an example.
7. What is Bio-methanisation? Indicate an industrial use.

**PART – B**

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

1. Exogenic processes
2. Thermal properties of soil
3. Carbon cycling and sequestration
4. Characterisation of solid wastes
5. Land farming as a soil remediation method
6. Classification of E-waste and recovery

**PART – C**

**Answer all the questions 2q X 10m = 20**

1. a. Classify minerals based on their composition. Provide appropriate examples.

**OR**

b. Discuss soil as an ecosystem.

1. a. Irrigation leads soil contamination. Justify.

**OR**

b. What is smart waste management? Discuss its role in maintaining your locality clean and green.

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