

JSS Academy of Higher Education & Research, Mysuru
(Deemed to be University)

First Semester M.Sc., Examination (RS1) – March 2023

Programme: Environmental Science

Subject: DSC 01 – Principles of Environmental Science

*Note: Draw neat, labeled diagrams wherever necessary.
Your answer should be specific to the questions asked.*

Time: 3 hours

Max. Marks: 70

I. LONG ESSAYS (Answer any TWO of the following)

2x15=30 Marks

1. What are the different types of grassland ecosystems? Write the characteristics of grassland ecosystem.
2. Explain the four major processes of global phosphorus cycle.
3. Describe the various *in-situ* conservation measures with suitable examples.

II. SHORT ESSAYS (Answer any FIVE of the following)

5x6=30 Marks

4. Explain the different layers of lithosphere.
5. Why do tropical rainforests have the richest biodiversity resources?
6. Enumerate the significance of estuarine ecosystem.
7. Give an account of ozone depleting substances.
8. Differentiate between food chain and food web with examples.
9. What is cryopreservation? Mention how it is used in the conservation of biodiversity.
10. Outline the significance of Red Data Book.

III. SHORT ANSWERS (Answer all the following)

5x2=10 Marks

11. How does the hydrosphere interact with the biosphere?
12. Define ecotone. What is the significance of ecotones?
13. What are the differences between benthic and pelagic zones in the ocean?
14. Give an overview of Project Tiger.
15. Enlist any two endemic and extinct species in India.

Jssquestion Paper And Answer 24

E Durkheim



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