

**20P117**

(Pages: 1)

Name: .....

Reg. No.....

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2020**

(CBCSS-PG)

(Regular/Supplementary/Improvement)

**CC19P ESC1 C01 – FUNDAMENTALS OF ECOLOGY AND ENVIRONMENT**

(Environmental Science)

(2019 Admission onwards)

Time: Three Hours

Maximum: 30 Weightage

I. Answer any **four** questions. Each question carries 2 weightage:

1. What are the importance of environmental awareness?
2. Explain the factors influencing physical weathering process.
3. Why does the troposphere get cold as it moves away from the earth?
4. Explain soil profile.
5. What is the significance of food chain in ecological studies?
6. The flow of energy in the ecosystem is unidirectional. Why?
7. Differentiate maximum natality and realised natality.

**(4 x 2 = 8 Weightage)**

II. Answer any **four** questions. Each question carries 3 weightage:

8. Explain the different layers of atmosphere.
9. What is the role of soil in shaping the biosphere?
10. Give a detailed account on topographic features of the environment.
11. The phosphorus cycle is an imperfect cycle. Explain.
12. Briefly explain the techniques used to measure the productivity.
13. Enumerate the factors affecting the density of population.
14. Briefly explain the stages of ecological succession with example.

**(4 x 3 = 12 Weightage)**

III. Write an essay on any **two** of the following. Each question carries 5 weightage:

15. Describe the whole processes involved in the formation of soil
16. Give a detailed account on different kinds of associations existing among organisms in an ecosystem. Explain each with example.
17. Describe biogeochemical cycling of elements in the Environment.
18. Explain the trophic structure and trophic function of an ecosystem with diagram.

**(2 x 5 = 10 Weightage)**

\*\*\*\*\*