

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2025**

(CBCSS - PG)

(Regular/Supplementary/Improvement)

**CC19PESC1C02 - PHYSICAL PROCESSES IN THE ENVIRONMENT**

(Environmental Science)

(2019 Admission onwards)

Time : 3 Hours

Maximum : 30 Weightage

**Part-A**Answer any ***four*** questions. Each question carries 2 weightage.

1. Explain circulation of Oceans.
2. Define weather.
3. Define ENSO.
4. Define the term metamorphism.
5. Define igneous rock.
6. Define ground water.
7. What are the reasons for ground water exploitation?

**(4 × 2 = 8 Weightage)****Part-B**Answer any ***four*** questions. Each question carries 3 weightage.

8. Discuss different seasons in India.
9. Briefly explain the structure of atmosphere.
10. Differentiate potential temperature and virtual temperature.
11. Briefly explain atmospheric inversions.
12. What is Gaia hypothesis and its significance?
13. Explain Lithosphere and its different components.
14. What you meant by recycling of lithosphere?

**(4 × 3 = 12 Weightage)**

### **Part-C**

Answer any ***two*** questions. Each question carries 5 weightage.

15. Define atmospheric stability and explain the different factors that affect atmospheric stability.
16. Explain the different steps in formation of cloud and precipitation.
17. Explain the reasons , consequences and mitigation strategies of climate change.
18. Explain hydrological cycle with neat diagram.

**(2 × 5 = 10 Weightage)**

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