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Name: .....

Reg. No. ....

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2017**

(Regular/Supplementary/Improvement)

(CUCSS-PG)

**CC15P ES1 C01 – PHYSICAL PROCESSES IN THE ENVIRONMENT**

(Environmental Science)

(2015 Admission Onwards)

Time: Three Hours

Maximum:36 Weightage

**PART - A**

Answer *all* questions. Each question carries 1 weightage

1. What are Equinoxes?
2. What is an Atmospheric window?
3. Distinguish between convergence and divergence of ocean currents
4. What is Potential temperature?
5. What is an adiabatic process?
6. What is Inversion?
7. Comment on Cumulonimbus clouds
8. What is mean by droplet growth?
9. Explain neutral equilibrium
10. What is Moho Discontinuity?
11. Explain Carbonate process in chemical weathering?
12. Explain a Gneissic rock
13. Comment on Hydrograph
14. Distinguish between Aquifer and Aquiclude

(14 x 1 = 14 Weightage)

**PART -B**

Answer any *seven* questions. Each question carries 2 weightage.

15. Give an account of structure of atmosphere
16. Thermohaline conveyor belt
17. Give an account of atmospheric stability
18. Comment on condensation process of clouds
19. Causes of climate change
20. Give an account of earth's magnetic field
21. Enumerate the physical weathering processes
22. Geological time scale

23. Surface water- groundwater interaction
24. Groundwater exploitation and management

(7 x 2 = 14 Weightage)

**PART -C**

Answer any *two* questions. Each question carries 4 weightage.

25. Discuss the global solar distribution and their effect in atmosphere
26. Discuss the depth, structure and diurnal variations of atmospheric boundary layer
27. Write an essay on continental and maritime climates
28. Describe the structure of earth with a neat diagram

(2 x 4 = 8 Weightage)

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(14 x 1 = 14 Weightage)

**PART -B**

Answer any seven questions. Each question carries 2 weightage.

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