18P117 (Pages: 2) Name: …………………….

Reg. No…………………...

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2018

(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 is mean by Galactic movement? What is its period of movement?

2. What are Solstices?

3. What are the factors affecting the global distribution of solar radiation?

4. Write note on Troposphere.

5. What is an Inversion?

6. Define Potential temperature.

7. Distinguish between stratus and cumulus clouds.

8. What are Aerosols?

9. Distinguish between El Nino and ENSO.

10. What is a Rock cycle?

11. Comment on Mantle of the earth.

12. Identify two important characteristics of sedimentary rocks.

13. Comment on Stream hydrograph.

14. Distinguish between Confined and Unconfined aquifer.

(14 x 1 = 14 Weightage)

Part A

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

15. Thermohaline conveyor belt.

16. Enumerate the different types of equilibrium in atmosphere.

17. Discuss the depth and structure of atmospheric boundary layer.

18. Give an account of continental and maritime climates.

19. Drivers of climate change.

20. Give an account of metamorphic rocks.

21. Enumerate the chemical weathering processes.

22. Geological time scale.

23. Explain Global water balance.

24. Surface water- groundwater interaction study.

(7 x 2 = 14 Weightage)

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

25. What are the causes of ocean currents? Discuss the characteristics of convergence, divergence, upwelling and sinking of ocean waters.

26. Give an account of the composition of dry air. Write detailed note on isothermal and adiabatic process.

27. Write an essay on cloud formation and classification of clouds.

28. With neat diagram briefly describe the concept of plate tectonics.

(2 x 4 = 8 Weightage)

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