

17P328

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Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2018

(Regular/Supplementary/Improvement)

(CUCSS - PG)

CC15P ES3 E16 - ECOSYSTEMS AND GLOBAL CLIMATE CHANGE

(Environmental Science)

(2015 Admission onwards)

Time : Three Hours

Maximum : 36 Weightage

I. Answer *all* questions. Each question carries 1 weightage.

1. Tropopause.
2. El nino.
3. Greenhouse gases.
4. Ozone hole.
5. Gaia hypothesis.
6. Carbon trading.
7. Temperature inversion.
8. Plume.
9. Albedo.
10. Biosphere.
11. Tree rings.
12. Polar cell.
13. IPCC
14. Cenozoic era.

(14 x 1 = 14 Weightage)

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

15. Comment on thermohaline circulation.
16. Explain the role of the oceans on climate.
17. Write an account on Montreal Protocol.
18. Explain different layers of atmosphere.
19. Explain the linkages of biosphere with other ecosystems.
20. Explain the Köppen Climate Classification System.
21. Explain the factors that affect climate.
22. Explain the factors contributing to ozone depletion.
23. Explain the role of oceans in carbon sequestration.
24. Explain the geological history of earth.

(7 x 2 = 14 Weightage)

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

25. Explain the human impacts on climate change.

26. What is extinction? What are the natural and anthropogenic reasons of extinction?

27. Explain Indian monsoon.

28. Explain the basic atmospheric properties, climatic controls, variability; atmospheric movements in the global scale, regional scale, local scale.

(2 x 4 = 8 Weightage)
