

15P319

(Pages: 2)

Name.....

Reg. No.....

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2016**

(CUCSS - PG)

(Environmental Science)

**CC15P ES3 C16 – Ecosystems and Global Climate Change**

(2015 Admission)

Time : Three Hours

Maximum : 36 Weightage

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

1. Ozone depleting substances
2. Define Climate.
3. GWP
4. Solar Constant
5. What are tropical cyclones?
6. Principle of Continentality
7. DALR
8. Carbon sequestration
9. Urban Heat Island
10. Mountain and Valley winds
11. Radiometric dating
12. IPCC
13. Tundra Ecosystem
14. Kyoto Protocol

**(14 x 1 = 14 weightage)**

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

15. Describe the layers of atmosphere and its composition
16. Brief the vertical distribution of groundwater
17. Explain the role of oceans in carbon sequestration.
18. What is Carbon Trading? Explain the CDM concept.
19. Comment on human activities causing climate change.
20. What are Ozone hole? Explain ozone depletion over Antarctica.
21. Define inversion. Explain different types of inversion.

22. Define pressure systems. Explain its role on global climate
23. Write a note on Earth's geological time scale.
24. What are GHGs? Explain Green House Effect.

**(7 x 2 = 14 weightage)**

III. Write an essay on *any two* of the following. Each question carries 4 weightage

25. Explain Indian Monsoon. Comment the effects of climate change on monsoons.
26. Define Climate Change. Explain the impacts of climate change on biosphere.
27. Explain the role of international conventions in combating global climate change.
28. Write an essay on ocean circulation patterns and its effects on global climate.

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

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