

C83707

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Name.....

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Reg. No.....

SECOND SEMESTER M.Sc. DEGREE EXAMINATION, JUNE 2015

(CUCSS)

Environmental Science

ES2 C08—ENVIRONMENTAL PHYSICS

Time : Three Hours

Maximum : 36 Weightage

Part A

Answer all questions. Each carries 1 weightage

1. Distinguish between rotation and revolution of the earth.
2. How seasons are formed ?
3. State the Wien's displacement Law.
4. What is Convection ?
5. Thermosphere.
6. What is hygrometer ?
7. What is coriolis force ?
8. What you understand by warm front ?
9. Explain the phenomenon auroras.
10. What is Doppler effect ?
11. Distinguish between fission and fusion reaction.
12. What is tilted photograph ?
13. What are the uses of IR colour photograph ?
14. What is IRS ?

(14 × 1 = 14 weightage)

Part B

Answer any seven questions. Each carries 2 weightage.

15. Earth's radiation balance.
16. Adiabatic and non-adiabatic process.
17. Measurement of humidity.
18. Explain Tropical storms and cyclones.
19. Write notes on different types of fronts.
20. Optical features of atmosphere.
21. Radioactive disintegration.
22. List out the physiological and physical properties of sound.

Turn over

23. Application of UV aerial photography and IR photography.
24. Write down the procedures of stereo photography.

(7 × 2 = 14 weightage)

Part C

Answer any two questions. Each carries 4 weightage.

25. Write an essay on vertical stability of atmosphere.
26. Elucidate the weather and climate of India.
27. Briefly describe the origin and types of air masses.
28. Enumerate the environmental and land use application of remote sensing.

(2 × 4 = 8 weightage)