PG Odd Semester (CBCS) Exam., December—2016

ECOLOGY AND ENVIRONMENTAL SCIENCE

(3rd Semester)

Course No. : ECGCC–302

(Pollution Ecology and Environmental Impact Analysis)

Full Marks : 70
Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer **five** questions, taking **one** from each Unit

UNIT—I

1. What are primary and secondary air pollutants? Discuss their effects on human health. 7+7=14

2. *(a)* How is acid rain caused? What are its impacts on soil and trees? 4+5=9

(b) Write a note on ozone depletion. 5

UNIT—II

3. What is eutrophication? Describe the process of eutrophication and its effects, signifying the relationship of DO with BOD and COD in water bodies exposed to organic pollution. 2+12=14

4. Briefly describe the physical and chemical methods of wastewater treatment. Give an account of activated sludge method of wastewater treatment with special reference to biological component. 4+10=14

UNIT—III

5. Write notes on the following : 7×2=14

(a) Environmental issues related to coal mining

(b) Acid soils and their management

6. Write in brief about pesticide functional groups along with their chemical classes and examples. Give an account of the effects of pesticides on environment and human health. 7+7=14

UNIT—IV

7. Discuss noise pollution and its effects on human health. Write a note on occupational hazards. 5+5+4=14

8. Write notes on the following : 7×2=14

(a) Radioactive pollution

(b) Electronic waste and its environmental impact

UNIT—V

9. What do you mean by environmental impact assessment (EIA)? Name the various projects in India which are required to undergo the EIA process. Describe briefly the method followed in India for carrying out EIA with suitable diagrammatic illustration. 1+2+11=14

10. Write notes on any *two* of the following : 7×2=14

(a) Water (Prevention and Control of Pollution) Act, 1974

(b) ISO certification

(c) Air (Prevention and Control of Pollution) Act, 1981

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