

C 40932

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**FOURTH SEMESTER B.TECH. (ENGINEERING) DEGREE
EXAMINATION, APRIL 2013**

EN 09 402 – ENVIRONMENTAL SCIENCE

(Regular/Supplementary/Improvement)

(2009 Scheme)

[Common for all branches]

Time : Three Hours

Maximum : 70 Marks

Part A

1. Mention the factors causing soil erosion.
2. What are food webs? Give an example.
3. How does ozone layer depletion take place? Write its consequences.
4. Define and write the significances of BOD and COD of water.
5. What are hot spots of bio-diversity? Give an example.

(5 × 2 = 10 marks)

Part B

1. Give an example for synthetic fertilizer and pesticide and explain the problems associated with them.
2. What are endangered and endemic species? Explain the threats to biodiversity.
3. Define Pollution and explain the reasons for water pollution.
4. Write short notes on sustainable development.
5. Explain the formation and adverse effects of acid rain.
6. Explain any *two* methods to control particulate air pollutants.

(4 × 5 = 20 marks)

Part C

1. Discuss the causes and consequences of deforestation.

Or

2. What are renewable and non-renewable energy resources? Explain the merits and limitations of any *one* renewable energy resource.

Turn over

3. Discuss the structure and function of an aquatic ecosystem.

Or

4. Write an elaborate notes on conservation of biodiversity.

5. What is thermal pollution? Enumerate the reasons for thermal pollution and explain any *two* control methods.

Or

6. Explain the following disaster management :

(a) Cyclone.

(b) Landslide.

7. With a neat diagram, explain rain water harvesting.

Or

8. With suitable case study, explain the consequences of nuclear accident and holocaust.

(4 × 10 = 40 marks)

