

C 26869

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Name.....

Reg. No.....

**FOURTH SEMESTER B.TECH. (ENGINEERING) DEGREE  
EXAMINATION, MAY 2012**

EN 09 402—ENVIRONMENTAL SCIENCE

(2009 Admissions)

[Common to all Branches]

Time : Three Hours

Maximum : 70 Marks

**Part A**

1. Write the effects of mining on forest.
2. Define food chain and food web.
3. What are consumers in an ecosystem ? Classify it with appropriate example.
4. Classify air pollutants with examples.
5. What is meant by sustainable development ?

(5 × 2 = 10 marks)

**Part B**

Answer any **four** questions from the following :

1. Explain the benefits and problems involved in constructing dams.
2. Write short notes on world food problems.
3. What are ecological pyramids ? Explain why some of these pyramids are upright while others are inverted in different ecosystems.
4. Define genetic, species and ecosystem diversity with suitable examples.
5. How does landslide take place ? Write its effects and explain the steps to be taken to prevent this disaster.
6. Write short notes on acid rain and ozone layer depletion.

(4 × 5 = 20 marks)

**Part C**

1. Define renewable energy resource and discuss in detail any *one* renewable energy resource.

*Or*

2. Discuss in detail the causes and consequences of deforestation.
3. Explain the structure and function of the grassland ecosystem.

*Or*

4. Describe the conservation of biodiversity.

Turn over

5. Explain the causes, effects and control measures of water pollution.

*Or*

6. Discuss in detail the causes and effects of solid waste management.

7. Discuss in detail the principle and advantages of main water harvesting.

*Or*

8. What is meant by “energy auditing”. Explain in detail the problems associated with energy.

(4 × 10 = 40 marks)

