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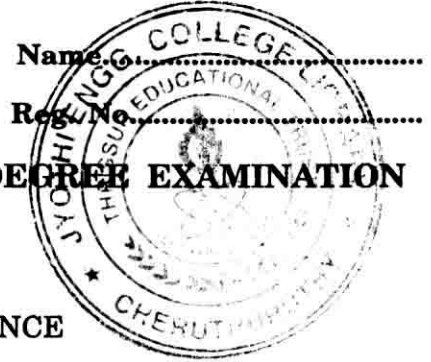
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FOURTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION
APRIL 2014

(2009 Scheme)

EN 09 402—ENVIRONMENTAL SCIENCE

(Common for all Branches)

Time : Three Hours   Maximum : 70 Marks

Part A

*Answer **all** questions.*
Each question carries 2 marks.

1. Briefly explain about mineral resources.

2. What are the advantages of biogas ?

3. Discuss the function of ecosystem.

4. Explain how industries affect our environment.

5. What is the difference between climate and weather ?

$(5 \times 2 = 10$ marks$)$

Part B

*Answer any **four** questions.*
Each question carries 5 marks.

6. What are decomposers ? Name any *two* of them. What do they do in the forests ?

7. List and explain the different ways to minimize the wastage of water.

8. Discuss the structure and functions of Grassland ecosystem.

9. What do you mean by *In-situ* and *Ex-situ* conservation of biodiversity ?

10. Discuss the role of an individual in prevention of pollution.

11. Explain, why is the generation and use of nuclear energy being opposed the world over ?

$(4 \times 5 = 20$ marks$)$

Part C

*Answer **all** questions.*
Each question carries 10 marks.

12. (a) Discuss the benefits and problems of dams in Kerala.

Or

(b) With suitable case study explain world food problems.

Turn over

13. (a) What do you mean by balance in nature ? How is balance in nature brought about ? Explain with suitable example.

Or

(b) Give a short note on :

    (i) India at mega diversity nation.

    (ii) Conservation of biodiversity.

14. (a) What is water pollution ? Mention sources of water pollution and suggest control measures. List the diseases caused due to intake of water contaminated by pollutants.

Or

(b) Brief note on :

    (i) Impacts of solid pollution.

    (ii) Disposal of solid waste.

    (iii) Marine pollution.

15. (a) Discuss the various problems related to energy and energy auditing.

Or

(b) Give a brief note on :

    (i) Global warming.

    (ii) Acid rain.

    (iii) Nuclear accidents and holocaust.

(4 × 10 = 40 marks)