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FOURTH SEMESTER B.TECH. (ENGINEERING) [14 SCHEM EXAMINATION, APRIL 2016

EN 14 402-ENVIRONMENTAL SCIENCE

(Common for all Branches)

Time : Three Hours

Maximum : 100 Marks

Part A

Answer any eight questions out of ten. Each question carries 5 marks.

- 1. Briefly explain the problems of overutilization of ground water.
- 2. Mention names of different types of ecosystems found in the biosphere.
- 3. What do you mean by poaching of wildlife ? Explain.
- 4. Give the concept of an ecosystem.
- 5. What do you mean by hot spot of biodiversity?
- 6. Why is the flow of energy in an ecosystem called as acyclic ? Explain.
- 7. Briefly explain endangered and endemic species of India.
- 8. Discuss all possible impacts of marine pollution on the local environment.
- 9. Briefly explain global warming.
- 10. What are the effect of industrialization on atmosphere?

 $(8 \times 5 = 40 \text{ marks})$

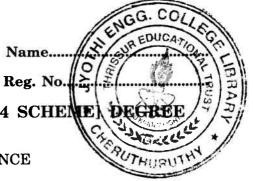
Part B

Answer all questions. Each question carries 15 marks.

11. What is World food problems ? Discuss the effects of modern agriculture. What are the problems of use of fertilizer and pesticides ?

Or

12. Discuss in detail about dams and their defects on forests and tribal people.



13. What are the different threats to biodiversity ? Explain in detail the In-situ and Ex-situ conservation of biodiversity.

Or

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- 14. Discuss the different types of ecosystem. Explain the biotic components of an ecosystem.
- 15. Describe the various causes, effects and control measures of urban and industrial wastes.

Or

- 16. Define pollution. Mention its principal types. Describe the impacts and preventive measures of air pollution.
- 17. List and explain the various measures to be taken for rainwater harvesting. Discuss its importance.

Or

- 18. Write a short note on the following :
 - (a) Value education.
 - (b) Water shed management.
 - (c) Chimate change.

 $(4 \times 15 = 60 \text{ marks})$