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Code No. : 31426

**VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD**  
**B.E.(Mech. Engg. ) III Year I-Semester Main & Backlog Examinations, December-2017**  
**Environmental Studies**

Time: 3 hours

Max. Marks: 70

*Note: Answer ALL questions in Part-A and any FIVE from Part-B*

**Part-A (10 × 2 = 20 Marks)**

1. Explain briefly the effects of floods.
2. List out the renewable and non-renewable energy resources.
3. What are producers, consumers and decomposers?
4. Explain Biogeochemical cycle.
5. Differentiate endemic and exotic species.
6. What are hotspots of biodiversity?
7. Mention the effects of noise pollution.
8. List out any four causes of air pollution.
9. What are the methods of watershed management?
10. How do you mitigate and plan for earthquake disaster?

**Part-B (5 × 10 = 50 Marks)**

11. a) Explain the fertilizer-pesticide problems in modern agriculture and water logging salinity. [6]  
b) Give the reasons for land degradation and write notes on consequences of drought. [4]
12. a) Explain the various functions of an ecosystem. [5]  
b) Describe the ecological pyramids in an ecosystem. [5]
13. a) How do you conserve the biodiversity? [5]  
b) Explain the major reasons for loss of biodiversity. [5]
14. a) Write about effects of air pollution on human beings, plants and on building materials. [5]  
b) Discuss the effects of water pollution and suggest some control measures. [5]
15. a) Explain the term population explosion and its effects. [5]  
b) Give the reasons for ozone layer depletion and add few lines on its effects. [5]
16. a) Discuss the types of soil erosion and various methods to control it. [5]  
b) Explain marine ecosystem. [5]
17. Write short notes on any *two* of the following:  
a) Values of biodiversity. [5]  
b) Issues involved in enforcement of environmental legislation. [5]  
c) Disaster management cycle. [5]

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