

**B.TECH. IN AEROSPACE ENGINEERING
(BTAE)**

Term-End Examination

June, 2012

BAS-021 : ENVIRONMENTAL SCIENCE

Time : 3 hours

Maximum Marks : 70

Note : Answer any ten questions. All questions carry equal marks.

1. Discuss different treatments given to hazardous waste before final disposal. Why are such treatments necessary ? Give names of such disposal methods which do not require pre-treatments. 7
2. What is meant by a zero-level safety environment as applicable to Aircraft ? Do you feel our society can achieve it ? Explain your answer. 7
3. Describe the salient benefits of management review in ISO-14001 of Environment Management System for a sustainable development of the organisation. 7
4. What is environment ? Discuss its components. 7

5. Discuss global nuclear energy scenario. Explain their environmental impact. 7
6. What are the major causes of biodiversity depletion ? 7
7. What do you understand by productivity of the ecosystem ? Discuss its types. 7
8. What is water pollution ? Describe different kinds of water pollution and their ecological effects on the aquatic life and also on human being. 7
9. What is biochemical oxygen demand (BOD) ? How is it related to water quality ? 7
10. Discuss the role of information technology in environmental management and health. 7
11. What is the Greenhouse effect ? What is its importance to global climate ? 7
12. Write short notes on *any two* of the following : $2 \times 3\frac{1}{2} = 7$
 - (a) Industrial hygiene
 - (b) Acid rain
 - (c) Environmental degradation
 - (d) Overnutrition
 - (e) Shifting cultivation