

**B.Tech. AEROSPACE ENGINEERING
(BTAE)**

Term-End Examination

00153

December, 2016

BAS-021 : ENVIRONMENTAL SCIENCE

Time : 3 hours

Maximum Marks : 70

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

1. What is meant by a zero-level safety environment as applicable to Aircraft ? How can it be achieved ? 7

2. What is environment ? Discuss its components. 7

3. What are the major causes of biodiversity depletion ? 7

4. What is water pollution ? Describe the different kinds of water pollution and their ecological effects on the aquatic life and also on human beings. 7

5. Discuss the role of information technology in environmental management and health. 7

6. Describe the main features of OHSAS 18001 and ISO 14001. 7
7. How can solar energy be converted into other forms of energy ? Explain two such systems with neat diagram. 7
8. Write the scope and importance of environmental studies. 7
9. Differentiate between renewable and non-renewable sources of energy with the help of suitable example. 7
10. What is an ecosystem ? What are the structural and functional aspects of ecosystems ? 7
11. What is marine pollution ? Discuss the causes and remedies of marine pollution. 7
12. Write short notes on any *two* of the following : $2 \times 3 \frac{1}{2} = 7$
- (a) Ozone Layer Depletion
 - (b) 3R Principle
 - (c) Consumerism and Waste Product
 - (d) Population Explosion
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