

III/ES

2011
ENVIRONMENTAL STUDIES
Paper : EST-300

Full Marks : 100

Pass Marks : 30

Time : 3 hours

(PART : A - OBJECTIVE)

(Marks : 40)

The figures in the margin indicate full marks for the questions

All answers (objectives, short answers and descriptive) should be written in main answer sheet.

SECTION - I

(Marks :10)

Choose the correct answer :

(1x10 =10)

1. It is estimated that the world population may stabilize at around
 - (a) 10 billion
 - (b) 12 billion
 - (c) 14 billion

2. Biomes are
 - (a) Aquatic
 - (b) Indicators of climate of a place
 - (c) Major ecological groupings

3. The World Environmental Day is observed on
 - (a) 5th May
 - (b) 5th June
 - (c) 15th June

4. The Theory of Natural selection was propounded by
 - (a) Marx
 - (b) Pasteur
 - (c) Darwin

5. A group of interconnected food chain is called
 - (a) Food web
 - (b) Complex of food chains
 - (c) Food Cycle
6. Abiotic environment consists of
 - (a) Living things
 - (b) Non-living things
 - (c) Both
7. Ecosystem involves interaction between
 - (a) Plants and animals
 - (b) Plants and non-living components
 - (c) All living and non-living components
8. Global warming is caused by
 - (a) Increase in CO₂ level
 - (b) Increase in Sulphur dioxide level
 - (c) Industrial smoke
9. The Bishnoi Cult was initiated by
 - (a) Amrita Devi
 - (b) Jambeshwar Maharaj
 - (c) Sunderlal Bahuguna
10. Ultra-Violet radiations brings about
 - (a) Blood Cancer
 - (b) Lung Cancer
 - (c) Skin Cancer

SECTION -II*(Marks : 30)***Answer the following questions:****(2x15 =30)**

1. Differentiate between habitat and niche.
2. What do you understand by the term biosphere?
3. What are the consequences of global warming?
4. What are autotrophs?
5. Define the term 'Ecosystem'.
6. What is energy Budget?
7. What are hot-spots?
8. What is Doyang Dam Project?
9. Mention the harmful effects of Smog.
10. Define- Carbon Cycle.
11. What do you understand by the term Environmental Resources?
12. Where was the first case of AIDS reported?
13. What is birth rate and death rate?
14. Mention some of the forest resources of North East India.
15. What is rural to urban migration?

(PART : B- DESCRIPTIVE)*(Marks : 60)***Answer any five question.**

1. (a) What is environment? Give an account of the effects of light on the process of plants. 6
- (b) What do you understand by the terms Ecology?
Is it a Science or an Art ? Explain. 6

2. (a) Explain the meaning of the terms- exhaustible and inexhaustible resources. Mention two inexhaustible resources. 6
- (b) Distinguish between renewable and non-renewable resources. Can renewable resources be exhausted? 6
3. (a) Discuss the structure and function of an ecosystem. 6
- (b) Discuss different types of ecosystem. 6
4. (a) How are national parks different from Sanctuaries? What do protected areas include? 6
- (b) How are bio-reserve different from biodiversity? Mention the aims of social forestry. 6
5. (a) What are the two types of Air pollutants? Mention the preventive measures to control air pollution. 6
- (b) What are the major consequences of shifting cultivation? 6
6. (a) What do you understand by the term Disaster? Describe the major categories of Disaster. 6
- (b) What are the various methods to control Noise Pollution. 6
7. (a) What is Acid Rain? What are the causes of Acid Rain? 6
- (b) What are the environmental problems in North East region of India? 6
8. Write short notes on (any two): (6x2=12)
- (a) Chipko Movement
 - (b) Two common natural disaster of Mizoram.
 - (c) HIV/AIDS
 - (d) Hydrological Cycle.