	Utech
Name :	
Roll No.:	On the control of the state of
Invigilator's Signature :	

CS/B.OPTM/SEM-2/BO-204/2010 2010 ENVIRONMENT AND ECOLOGY

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP – A (Multiple Choice Type Questions)

1. Choose the correct alternatives for any ten of the following:

 $10 \times 1 = 10$

is

				1
i)	The World Environment Day is celebrated on			
	a)	5th January	b)	5th June
	c)	10th January	d)	10th June.
ii)	The most powerful eye irritant present in smo			
	a)	NO	b)	SO_2
	c)	PAN	d)	O_3 .
iii)	Stone cancer of Taj is caused by			
	a)	smog	b)	acid rain
	c)	U V Ray	d)	CFC.
iv)	Which one is the intensity level of noise ?			of noise ?
	a)	Centimetre	b)	Decibel
	c)	Newton	d)	Watt.

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Industries a)

v)

- Supersonic jets b)
- c) Automobile
- d) Fertilizers.
- Which of the following is the main factor of water vi) pollution?
 - Smoke a)

- b) Ammonia
- c) Detergents
- d) Industrial wastes.

- **BOD** means
 - Biological Oxygen Demand a)
 - Biochemical Oxygen Demand b)
 - Biggest Oxygen Demand c)
 - Bio Oxygen Dissolved. d)
- viii) Troposphere is distributed above the earth surface from
 - a) 0 - 11 km
- b) 0 - 12 km
- 0 8 kmc)
- d) 0 - 6 km.
- The normal hearing frequency range is ix)
 - 20 30 dBa)
- 30 40 dBb)
- 60 80 dBc)
- 80 100 dB. d)
- Air Pollutant which reduces oxygen carrying capacity of X) blood is
 - a) ammonia
- hydrocarbon b)
- hydrogen sulphide c)
- d) carbon monoxide.

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- xi) Extraction of minerals and other materials from the earth's crust for human use is known as
 - a) Agriculture
- b) Mining
- c) Industrialization
- d) Grazing.
- xii) Tinnitis is a disease caused due to
 - a) Water pollution
- b) Land pollution
- c) Air pollution
- d) Sound pollution.

GROUP – B (Short Answer Type Questions)

Answer any *three* of the following.

 $3 \times 5 = 15$

- 2. State the different components of earth.
- 3. Define environment and environment degradation.
- 4. Define the concept of food chain. What are the types of food chain?
- 5. State the role of NGO for developing environment.
- 6. What is Ozone Hole ? Mention the characteristics of stratosphere level.

GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following.

 $3 \times 15 = 45$

- 7. Write down various components of ecosystem with example. How is energy transmitted through the biotic components of a grassland ecosystem? 8+7
- 8. Explain solid waste management. State the different method to treat solid wastes should a country continue open dumping method? 4 + 8 + 3

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- 9. What is EIA? Write down the process of EIA. Describe in details the Montreal protocol and Kyoto protocol. 2 + 6 + 7
- 10. a) Define biological diversity. State the types of biodiversity.
 - b) What is CBD? Give its objectives.

8 + 7

11. Write notes on any three of the following:

 3×5

- i) BOD
- ii) Water pollution
- iii) Acid Rain
- iv) Noise Pollution
- v) Greenhouse effect.

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