	<u>Uiegn</u>
Name:	A
Roll No.:	As Against Williams Staff Excellent
Invigilator's Signature:	

CS/B.OPTM/SEM-2/BO-204/2012

2012 ENVIRONMENT & 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)

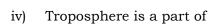
1. Choose the correct answers for any *ten* of the following:

 $10 \times 1 = 10$

- 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 smog is
 a) NO
 b) SO₂
 - c) PAN
- d) O_3 .
- iii) Biodiversity means
 - a) Lithosphere
 - b) The living natural resources
 - c) Micro-organism only
 - d) Seas and ocean.

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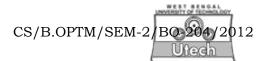
- a) Atmosphere
- b) Stratosphere
- c) Mesosphere
- d) Lithosphere.
- v) "Arabari Model" in West Bengal is famous for
 - a) Solar Power
 - b) Rain water harvesting
 - c) Chipko movement
 - d) Joint forest management.
- vi) Gravitational settling chamber is used to control
 - a) Air pollution
- b) Water pollution
- c) Noise pollution
- d) Land pollution.
- vii) Soot is the cause of
 - a) Cancer
- b) Asthama
- c) Respiratory problems d)
 - d) All of these.
- viii) The normal hearing frequency range is
 - a) 20 30 dB
- b) 30 40 dB
- c) 60 80 dB
- d) 80 100 dB.
- ix) Advanced water treatment is
 - a) Physical process
- b) Chemical process
- c) Bio-chemical process
- Biological process.
- x) Cadmium has bio-chemical effect on
 - a) bone

b) lungs

d)

- c) both (a) and (b)
- d) none of these.

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- xi) Which of the following is a non-biodegradable pollutant?
 - a) DDT

- b) Cellulose
- c) Detergents
- d) Organic matter.
- xii) Photochemical smog was first observed in
 - a) London

- b) Canada
- c) Los Angeles
- d) Japan.

GROUP - B

(Short Answer Type Questions)

Answer any three of the following.

 $3 \times 5 = 15$

- 2. What is eutrophication ? What is its effect on aquatic organism ?
- 3. Give the role of environmental NGOs.
- 4. What is acid rain? Give its harmful effects.
- 5. Give a brief note on biomes.
- 6. Give the mechanism of action of electrostatic precipitation.

GROUP - C

(Long Answer Type Questions)

Answer any three of the following.

 $3 \times 15 = 45$

- 7. What are the differences between sound and noise? Classify different types of noise and write in brief their possible control measures. What is the impact of Noise pollution on human being?

 3 + 7 + 5
- 8. Discuss the nitrogen cycle with proper flow diagram. Ozone acts as a pollutant in atmosphere and also as an umbrella in stratosphere. Justify with reasons. 7 + 8

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- 9. Explain the role of different greenhouse gases in increasing the temperature of the earth. What are the measures necessary to face this problem of global warming? 10 + 5
- 10. Why are environmental issues getting too much importance in recent days? Do you agree with energy from waste? What is cool roof concept and how is it helpful in energy conservation?
 5 + 5 + 5
- 11. What is standard 5 days BOD test? What are the impacts of surface water pollution? 6+9
- 12. Write down the methods of dispersion of pollutants (smoke) within the atmosphere. Discuss the collection and disposal methods of municipal solid waste. 8 + 7

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