Name :	
Roll No. :	An Annual (V Constitution 2nd Exciline
Invigilator's Signature :	

CS/HM/SEM-4/BHM-403/2013

2013

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 alternatives for any ten of the following : $10 \times 1 = 10$ i) Non-living components of ecosystem are called abiotic factors b) biotic factors a) producers d) c) consumers. ii) Which one of the following is waterborne disease ? a) Typhoid b) Mumps AIDS d) Cataract. c) Stone cancer of Taj is caused by iii) smog b) acid rain a) CFC. c) UV rays d) Bhopal gas tragedy released the gas iv) methane b) a) ozone nitrous oxide d) methyl isocynate. c) 4233 [Turn over

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v)		most potential gas t arth is	o in	crease the temperature		
	a)	CO ₂	b)	CO		
	c)	CFC	d)	SOx.		
vi)	Whi	Which of the following is the intensity level of noise ?				
	a)	centimetre	b)	decibel		
	c)	newton	d)	watt.		
vii)	Non	-biomedical waste is				
	a)	discarded medicine	b)	syringe		
	c)	sugarcane	d)	cotton.		
viii)	Sewage water can be purified by the action of					
	a)	aquatic plant	b)	penicillin		
	c)	algae	d)	micro-organism.		
ix)	Devices like electrostatic precipitator & fabric filter are used to reduce					
	a)	air pollution	b)	water pollution		
	c)	noise pollution	d)	thermal pollution.		
x)	The most powerful eye irritant present in smog is					
	a)	NO	b)	ozone		
	c)	PAN	d)	sulphur dioxide.		
xi)	EIA	EIA is				
	a)	a) Environmental Impact Assessment				
	b)	Environment of Impact Assessment				
	c)	c) Essential Impact Assessment				
	d)	none of these.				

- xii) BOD is
 - a) Biological Oxygen Demand
 - b) Better Oxygen Demand
 - c) Biological Optimum Demand
 - d) Biogenetic Oxygen Demand.

GROUP – **B**

(Short Answer Type Questions)

Answer any *three* of the following. $3 \times 5 = 15$

- 2. Distinguish between primary and secondary air pollutions.
- 3. Define food chain. Discuss grazing food chain with examples.
- 4. Explain the basic elements of ecology.
- 5. What do you mean by hazardous waste ? Mention the special care to be taken for their handling and disposal. 2 + 3
- 6. Explain the relevance of the subject Environment & Ecology on Hospital Management.

GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

7. Define the objectives of EIA. Mention the steps involved in the EIA process. Highlight eight guiding principles of EIA.

3 + 4 + 8

- 8. What is a pollutant ? Give two examples each of a primary and secondary air pollutants. Explain major air pollutant in the hospital context. State their effects and methods of control. 1 + 4 + 4 + 6
- 9. Explain the main subdivisions of biosphere. Which features of the planet earth make life possible here ? How does the study of the subject Environment and Ecology help the hospital administrators in efficiently managing a hospital ?

3

6 + 3 + 6

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- 10. Describe the sources of noise pollution. What are the effects of it on environment ? What are the ways to control it inside and around a hospital ?
 2 + 5 + 8
- 11. Define biomedical waste. Describe different methods of management of biomedical waste. Explain autoclaving & incineration. 2+7+6
- 12. What is biodiversity ? Describe the different ways to conserve biodiversity. Explain the concept of 'Ecological balance' and consequence of changes. 2 + 6 + 7
- 13. Write short notes on any *three* of the following : 3×5
 - a) Environmental Protection Act, 1986
 - b) Role of plastic on land pollution
 - c) Forest ecosystem
 - d) Global warming
 - e) Ozone depletion.

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