M.Sc. Part-I Examination, 2013

ENVIRONMENTAL SCIENCE

PAPER - II

Full Marks: 100

Time: 4 hours

The figures in the right hand margin indicate marks

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

Illustrate the answers wherever necessary

GROUP-A

Answer Q.No. 1 and any five questions from the rest

- 1. Answer any ten of the following:
- 2×10
- (i) What is 'Tibilsi conference'?
- (ii) Write four names of environment-related careers.
- (iii) Write the significance of 'environment -calendar' with some examples.

C-ases The of

- (iv) What do you mean by 'sentient creatures'?
- (v) What is 'eco-centrism'?
- (vi) Define 'Dobson unit'.

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- (vii) Why is ozone layer known as natural sun-screen?
- (viii) What are the main features of 'Montreal protocol'?
- (ix) Write difference between environmental movement and political movement.
- (x) What is desertification?
- (xi) Define saline soil in terms of conductivity. exchangeable sodium percentage and pH.
- (xii) What are the principle pollutants emitted by vehicles used for transport?

Alvo. Land any five duestions from the rest

- (xiii) What is International Maritime Day and its bots relevance? was to somen and surviv
- (xiv) Classify natural resource from the viewmanu point of durability. Unals and and (14)

(xv) What is alkaline soil?

(xvi) What do you mean by 'natural immunity'?

- What is environmental ethics? What are the different approaches to environmental ethics? Write a brief note on 'eco-feminism'. 4+6+6
- Write with reactions, the role of chlorine and CFC in O₃ depletion. What are the impacts of O₃ depletion on global environment?
- Write the major sources of the following green house gases:
 - (a) methane; has self that be a self that the self that th
 - (b) nitrous oxide; and the land thousand
 - (c) CFC;
 - (d) Ozone.

Give a brief outline of remedial measures to control the above mentioned greenhouse 12+4 gases.

- Write notes on (any two): Dan of the W
- (i) Features of 'Chipko Movement'

(Continued)

- (ii) Almatti dam-project
- (iii) Mechanism and controlling measures of soil erosion.
- What are the benefits and problems with dams?
 Write briefly the possible solutions to minimise problems with dams.
- 7. Write the characteristics of wetland. Give difference between wasteland and wetland. Write the importances of wetland. 4+6+6
- 8. What is an insecticide? Describe the biological hormonal and bio-technological control of malaria.

 4 + 12
- 9. Write notes on (any two): 8+8
 - (i) Sunderban biosphere reserve
 - (ii) Waste and waste recycling
 - (iii) Water crisis and rain water harvesting.

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Answer Q.No. 1 and any five questions from the rest

- 1. Answer any ten of the following: 2×10
 - (i) What are the sources of arsenic contamination?
 - (ii) Write two names of vectorborne diseases along with names of vectors.
 - (iii) Define wastelands.
 - (iv) What is desertification?
 - (v) What is 'National Maritime Day'?
 - (vi) Define eco-tourism.
 - (vii) What is Chipko Movement?
 - (viii) What do you mean by 'insitu' conservation of natural resources?
 - (ix) What are the major greenhouse gases?
 - (x) What is geo-tourism?
 - (xi) What is Alkaline soil?

(xii)	What	is	the	difference	between	'World
	water	day	' and	d 'World we	etland day'	?
(viii	What	ise	nvir	onmental et	hics?	Answ

(xiv) Define Usar.

2. Explain the concept of River linking project.

What are the major problems of River linking project?

6 + 10

3. Describe the mechanisms of soil erosion.

Explain the methods of reclamation of Usar

Land.

6+10

4. How is ozone formed in the ozone layer? Write the mechanism of ozone layer depletion. What is 'Dobson Unit'?

5 + 9 + 2

5. Describe the significance of environmental education and awareness in the modern period.

6.	Write short notes on any two:						
	(i)	Biodiversity conservation					
	(ii)	Managing desertification					
	(iii)	Role of vehicular pollution in a quality.	ırban air				
7.	Explain the role of environmental movements in conservation of environment.						
3.	Expl	at are the functions of mangrove we lain the characteristics of Susphere reserve.	tlands ? ndarban 6 + 10				
).	Desc	cribe the methods of wasteland recl	amation				
	in In		16				

10. Write short notes on any two:

(ii) Wetland conservation

Rain water harvesting

(iii) Waste disposal recycling.

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