Roll	No	[Total No. of Pages: 2
	PGIS 1101B-2K13	
	M.Sc. Ist Semester Degree Examinati	on
	Environmental Science	
	(Fundamentals of Environmental Scien	ce)
	Paper -HCT-1.1	
Time	e: 3 Hours	Maximum Marks : 80
	ructions to condidates:	
	Answer questions form all sections.	
	Section - A	
	Answer all ten questions.	(10x1=10)
1.	Biosphere	
2.	Soil profile	
3.	Water cycle	
4.	Thermosphere	
5.	Floods	
6.	Remote sensing	
7.	Natural resources	
8.	Earth radiation	
9.	GIS	
	Socio - environmental impact.	

Section - B

(1)

Answer any five of the following

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11.

12.

Write a brief account on the rock cycle.

Give an account of atmospheric layers

(5x3=15)

[Contd....

- 13. Write a note on environmental ethics.
- 14. Write an account on the components of biosphere
- 15. Give an account of out door pollution
- 16. Discuss briefly the sources of environmental problems

Section - C

Answer any **five** of the following

(5x7=35)

- 17. Write an account on the properties of water. Add a note on the water budget
- 18. Define human ecology? Briefly explain the disciples associated with human ecology
- 19 Define soil erosion? Explain measures to check soil erosion
- 20. Give a detailed account of water resources. Add a note on water budget.
- 21. Define Biodiversity. Explain the importance of biodiversity
- 22. Explain briefly the renewable and non renewable sources of energy.

Section - D

Answer any **two** of the following

(2x10=20)

- 23. Describe in detail the free market environmentalism with special reference to agriculture.
- 24. Write short notes on;
 - a) Non point sources of water pollution
 - b) Environmental Ethics
- 25. What is natural disaster? Describe in detail the monitoring and management of natural disaster in the environment.

	Total No. of Pages: 2
PGIS 1104 B-2K13	
M.Sc Ist Semester Degree Examination	
Environmental Science	
(Environmental Biology)	
Paper -SCT-1.1	
e: 3 Hours	Maximum Marks:80
ructions to candidates:	
1. Answer questions from all sections.	
Section - A	
Answer all ten questions.	(10x1=10)
Population ecology	•
Producers	
Net Primary Productivity (NPP)	
Biodiversity	
Soil erosion	
Ecotones & Edge effect	
Food spoilage	
Acid Rock Drainage (ARD)	
Biomes	
Wild life habitat	
Section - B	
Answer any five of the following	(5x3=15)
Explain the relation between Man and Environment?	
가는 하는 물 없이 있는 사람들은 것이 되는 것은 것이 되는 것이 되었다. 사람들은 사람들은 사람들은 소문에 가장 하는 것이 되었다.	
병원 마이트를 불통해 다시 보다. 이번 바라 사용로 본 이 시간하다.	[Contd
	M.Sc Ist Semester Degree Examination Environmental Science (Environmental Biology) Paper -SCT-1.1 e: 3 Hours ructions to candidates: 1. Answer questions from all sections. Section - A Answer all ten questions. Population ecology Producers Net Primary Productivity (NPP) Biodiversity Soil erosion Ecotones & Edge effect Food spoilage Acid Rock Drainage (ARD) Biomes Wild life habitat Section - B

13.	Explain about the energy flow in Forest ecosystem?		
14.	Explain Bio - fouling?		
15.	How to prevent microbial contamination in hospitals?		
16.	Explain the importance of sacred grooves?		
		Section - C	
	Ans	wer any five of the following	
17.	Exp	lain the scope of environmental science.	
18.	What is meant by productivity, explain it in grassland ecosystem.		
19.	Discuss the importance of carbon sequestration.		
20.	Writ	e a note on water borne diseases and their control measures	
21.	Discuss MPN test and MF technique.		
22.	Exp	lain Oils spill degradation.	
		Section - D	
	Ans	wer any two of the following	
23.	Discuss the different types of major biomes of the world		
24.	What is Bio diversity? Explain in-situ and ex - situ conservation		
25.	Write short notes on.		
	a)	Factors influencing the spoilage of food	
	b)	Bioassay.	

(5x7=35)

(2x10=20)

Roll 1	No	[Total No. of Pages: 2
	PGIS 11	02 B-2K13	
	Environm (Earth and	Degree Examination ental Science Environment) -HCT-1.2	1
Time	: 3 Hours		Maximum Marks:80
Instr	uctions to condidates:		
	Answer questions from all sec	tions.	
	Sec	tion - A	•
	Answer all ten questions.		(10x1=10)
1.	Asthenosphere		
2.	Stratopause		
3.	Biosphere		
4.	Magma		
5.	Epicentre	•	
6.	Tsunami		
7.	Pedon		
8.	Groundwater table		
9.	Mineral		
10.	Geomorphology		
		ction - B	
	Answer any five of the following		(5x3=15)
11.	Soil Humification		
12.	Cyclones		
PG]	S 1102 B -2K13 /2013	(1)	[Contd

14.	Reverine floods	
15.	Chemical composition of air	
16.	Water logging	
	Section - C	
	Answer any five of the following $(5x7=35)$	
17.	Explain Hydrologic cycle and its importance	
18.	Classify the Rocks with suitable examples	
19.	Explain phytoremediation techniques of soil contaminants	
20.	Write note on soil erosion and its control measures.	
21.	Impact of Natural disasters on flora and fauna	
22.	Importance of Exogenic process on landscape forming on the earth	
	Section - D	
	Answer any two of the following (2x10=20)	
23.	Explain various types of Mineral resources. Add a note on the depletion of natural resources	
24.	Explain the process of soil formation and role of soil organisms in maintaining soil health	
25.	Describe the process and criteria for site selection and evaluation of land for sustainable land use planning.	

13. Earth crust

Roll	No	[Total No. of Pages: 2
	PGIS 1103 B-2K13	
	M.Sc. Ist Semester Degree Examinatio Environmental Science (Environmental Chemistry)	n
Time	Paper - HCT-1.3	Maximum Marks:80
	euctions to Candidates:	Maximum Marks :00
LILSLI	Answer questions from all Sections	
	Section - A	
	Answer all ten questions	$(10 \times 1 = 10)$
1.	Atmospheric chemistry	
2.	Particles in the atmosphere	
3.	Ozone chemistry	
4.	PAN	
5.	Receptor sites	
6.	Microsomal Oxidation	
7.	Radiation pollution	
8.	Organic Particulate Matter.	
9.	Toxicants	
10.	Xenobiotics	
	Section - B	
	Answer any five of the following	(5×3=15)
11.	Explain briefly the chemical speciation.	
12.	Give the classification of elements.	
13.	Write a note on toxic chemicals in the environment.	
14.	Give an account of biochemical aspects of lead.	
15.	Explain the absorption and storage of xenobiotics	

16. Write a note on organic pollution.

Section - C

Answer any five of the following (5×7=35)

17. Write briefly the thermo chemical reactions involved in the atmosphere.

- 18. Discuss the role of CFC's in reducing ozone layer
- 19. Give the antidotal procedures in toxicology.
- 20. Explain briefly the electrochemical theory of corrosion?
- 21. What is water pollution? Enumerate the properties of water.
- 22. Discuss briefly on dose-response relationship in chemical toxicology.

Section - D

Answer any two of the following (2×10=20)

Explain in detail the histransformation of organishlaring and organishlaring

- 23. Explain in detail the biotransformation of organochlorine and organophosphorous.
- 24. Write a note on:
 - i) Photochemical smog formation
 - ii) Biochemical aspects of mercury
- 25. Describe in detail the different types of radio-active reactions in marine water bodies?