This question paper contains 4 printed pages]

Your Roll No. ....

5192-G

## B.Sc. (H)/B.Sc. Phy. Sc./Life Science B

(Qualifying Paper)

Paper-ESQP

## **ENVIRONMENTAL STUDIES**

(Admission of 2010 and onwards)

Time: 3 Hours

Maximum Marks: 75

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt Five questions in all, including

Question No. 1 which is compulsory.

- 1. (a) Identify the true statements amongst the following : 5
  - (i) Autotrophs are capable of photosynthesis.

	(ii)	Maximum density of water appears at 0°C.			
	(iii)	As we go higher up in the troposphere the a	i		
		temperature decreases.			
	(iv)	Life in oceans is most abundant.			
	(v)	The animals who can maintain constant bod	y		
		temperature by internal means ar	•		
		called Homothermic.			
(b)	Define	e the following terms :	5		
	( <i>î</i> )	Abiotic components			
	(ii)	Solar constant			
	(iii)	Biological Oxidation Demand (BOD)			
	(iv)	Transpiration			
	(v)	Primary productivity.			
(c)	Fill in the blanks:				
	(i)	The instrument used for measuring intensity of	f		
		light is called			
	(ii)	Herbivores are consumer	s		
		that feed on plants.			

		(111)	Zone in water boules include area	as
			too deep to be penetrated by light.	
		(iv)	Soils that are formed at the same site whe	re
			the weathering of parent rock has taken pla	ce
			is called	
		(v)	As the wavelength of radiation increases	its
			energy	
2.	Deffe	rentiate	between the following:	15
	(i)	Externa	al and Internal environment	
	(ii)	Атоип	t of light and Intensity of light	
	(iii)	Biotic	and Abiotic components.	
3.	Write	short 1	notes on any three of the following:	15
	(i)	Water	pollution	
	(ii)	Popula	tion growth form	
	(iii)	Genic	diversity	
	(iv)	Deplet	ion of ozone layer.	

What do you understand by Biogeochemical cycling? Discuss 4. the impact of humans on the water cycling, 15 5. (i) Explain the stratification curve of temperature in the atmosphere. 15 Why is it important to conserve wildlife? (ii)6. Write short notes on the following: 15 (i)Measures to control global warming (ii)Biomagnification In situ and Ex situ preservation of diversity. (iii) 7. Depict the three types of food chains that are interconnected. 15

Or

Describe the effect of pollutants on an Ecosystem.