PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2018

(First Semester)

Branch - ZOOLOGY

ENVIRONMENTAL BIOLOGY

Time:		Maximum: 7	75 Marks
		ALL questions carry EQUAL marks	$(10 \times 1 = 10)$
1	The term ecosystem was propose (i) Tansley (iii) Odum	ed by (ii) Kendeigh (iv) Clarke	
2	The pyramid of energy is (i) Always erect (iii) Either erect or inverted	(ii) Always inverted (iv) Not a true pyramid	
3	Immigration refers to the (i) outward migration (ii) Inward migration (iii) both inward and outward mid (iv) None of the above	gration	
4	The ultimate source of phosphate (i) Crystalline rocks (iii) Soluble organic phosphate (i	(ii) Autotrophs	
5	Iron and Gold are resortion Finite (iii) Continuous	arces. (ii) Infinite (iv) Renewable	
6	The non-renewable source of ene (i) Solar energy (iii) Fossil fuel	rgy is energy. (ii) Tidal (iv) Wind	
7	Animals and plants are best prote (i) National parks (iii) Sanctuaries	ected in (ii) Botanical gardens (iv) Zoological parks	
8	The variation of species richness area is called (i) Ecosystem diversity (iii) Genetic diversity	in different ecosystems of a g (ii) Species diversity (iv) Alpha index diversity	geographical
9	Minamata disease is caused by (i) Air Pollution (iii) Noise Pollution	(ii) Land Pollution(iv) Water Pollution	
10	Sound becomes hazardous noise (i) Above 80 (iii) Above 100	pollution at decibels: (ii) Above 30 (iv) Above 120	

SECTION - B (35 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks ($5 \times 7 = 35$)

1 1 a Differentiate food chain and food web.

OR

- b Discuss about the nature and flux of energy through communities.
- 12 a Differentiate 'Mortality' and 'Natality' rate with examples.

OR

- b State the strategies to control human population.
- 13 a Evaluate the 'Wind Energy' is a source of renewable energy,

OR

- b Discuss abut 'Land' as a resource.
- 14 a Organize on Rain Water Harvesting.

OR

- b Analyze the value of Biodiversity.
- 15 a Assess the role of Biological indicators in environmental monitoring.

OR

b Critically evaluate the biological effects of soil pollution.

SECTION - C (30 Marks)

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks $(3 \times 10 = 30)$

- Elucidate the different methods employed to measure Primary productivity.
- 17 The gaseous and sedimentary cycles are significant Biogeocycles-Justify.
- Distinguish renewable and non-renewable energy resources of energy with suitable examples.
- Enumerate the aims of Wild Life Management and analyze the different methods to preserve the Wild Life.
- Man can be called as a "Disastrous Animal", if he does not manage Air Pollution Comment.

Z-Z-Z END