PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2023

(Fifth Semester)

Branch - BIOTECHNOLOGY

		ENVIRONMENTAL BI	OTECHNOLOGY	
	Tir	ime: Three Hours	Maxin	num: 50 Marks
		SECTION-A Answer ALL ALL questions carr	questions	$(5 \times 1 = 5)$
1		This factor contributes to the carbon cyc (i) fossil fuel combustion (iii)photosynthesis	cle. (ii) respiration (iv) all of these	
2		Initially which energy was approved as electricity? (i) Water energy (iii)Solar energy	a non-polluting way for go (ii) Nuclear energy (iv) Soil energy	
3		Which of the following solid wastes des (i) Toxic (iii)Non-toxic	scribes the term 'Municipa (ii)Hazardous (iv) Non-hazardo	
4		Which of the following is the main source of eutrophication? (i) Effluent quality (ii) Nitrogen (iii) Salty water (iv) Pure water		
5		When did The Environment (Protection) Act, 1986, come into force? (i) 01 April 1986 (ii) 01 March 1986 (iii) 01 May 1986 (iv) 19 November 1986.		
SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 3 = 15)				
5	a	How does production of methane by a specialized group of methanogenic archaea represent a diversion to normal cycling of carbon? OR		
	b	Describe the science fields that depen	d on remote sensing.	
7	a b	OR		
3	a			
	b		by local authorities	for solid waste
)	a	We realise that plastics, being non-biodegradable, are an environment hazard. However, while discussing the choking of sewage drains by plastics, why do we only talk about plastic carry bags and not of other plastic products? OR		

How do microorganisms make biofilms? Give examples.

18BTU22 Cont...

10 a Narrate on why EPA is called Umbrella Act?

OR

b Outline the aims and objectives of the EPA.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Discuss about the Climate Change and its influence in India.

OR

- b Elucidate on Indian biodiversity Act.
- 12 a Examine about the agriculture perspectives of pollution in industrial and rural areas.

OR

- b Summarize on Nuclear pollution and its impact.
- 13 a Highlight the sources and consequence of waste disposal.

OR

- b Categorize on the classification of Domestic and Industrial wastes.
- 14 a Enumerate on Biodegradable Plastics.

OR

- b Outline about the Biofilm preparation from microorganism.
- 15 a Discuss about the Environmental Laws.

OR

b Highlight on the holistic approach of environmental protection and conservation.

Z-Z-Z

END