PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2022

(First Semester)

Branch - BIOCHEMISTRY

GENERAL BIOLOGY

Tin	ne: ˈ	Three Hours		Iaximum: 50 Marks
		Answer A	N-A (5 Marks) LL questions carry EQUAL marks	$(5 \times 1 = 5)$
1		Taeniasis is a type of infectious of (i) Taenia solium (iii) Liver fluke	isease caused by (ii) Fungi (iv) Bacteria	
2		A human female with Turner's syndrome- (i) has one additional X chromosome (ii) has 45 chromosomes with XO (iii) is able to produce children with a normal husband (iv) exhibits male		
		characters		
3		In the context of the ABO blood given to a person who has blood (i) A (iii) B		AB blood may be
4		Hardy-Weinberg equilibrium ope (i) Gene flow (iii) Natural selection	rates in the absence of (ii) Mutation (iv) All of these	
5		When is the world wild life week (i) First week of September (iii) First week of October	? (ii) Last week of Sep (iv) Last week of Octo	
		SECTION	- B (15 Marks)	
Answer ALL Questions				
		•	Carry EQUAL Marks	$(5 \times 3 = 15)$
6	a	Explain the structure of <i>Taenia</i> OR	solium.	
	b	Comment on endoskeleton of	Shark.	
7	a	Enumerate about the Down's s OR	yndrome.	
	b	Summarize the Barr-body.		
8	a	Comment on Rh factor.		
	b.	OR Write about Hemophilia in ma	n.	
9	a	Explain sickle cell anemia.		
	b	OR Explain outbreeding with exar	nples.	• • • • •
				Cont

10 a Explain about wildlife conservation.

OR

b List out the national parks in India.

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a Describe the mouthparts of Cockroach with neat labelled diagram.

OR

- b Explain the digestive system of shark with neat labelled diagram.
- 12 a Describe about sex determination in Man.

OR

- b Summarize the structure of chromosome and its types.
- 13 a Describe about ABO blood grouping.

OR

- b Explain the extra-chromosomal inheritance with one suitable example.
- 14 a Differentiate Eugenics and Euthenics.

OR

- b Explain Hardy-Weinberg law with an example.
- 15 a Describe about pond ecosystem with suitable example.

OR

b Explain any three effects of water pollution in man.

Z-Z-Z

END