PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024

(Fifth Semester)

Branch - BIOTECHNOLOGY

GENOWICS AND PROTECTION		
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	Marrian 50	NA.

Time:	Three	Hours	Maximum: 50 Marks
1.	a) Rb) Rc) R	SECTION-A (5 Marks) Answer ALL questions ALL questions carry EQUAL marks at is the full form of RFLP? estriction Fragment Length Polymorphism ecognition Fragment Length Polymorphism andom Fragment Linear Polymorphism andom Fragment Linear Polymorphism	$(5 \times 1 = 5)$
2.	Whi Proj a) P. b) F c) V	ch of the following is a suitable vector for the process of cect (HGP)? AC (Protozoal Artificial Chromosomes) AC (Fungal Artificial Chromosomes) AC (Viral Artificial Chromosomes) AC (Yeast Artificial Chromosomes)	cloning in Human Genome
3.	a) P	henotypic function Molecular function b) Cellular function d) Structural genomics	
4.	he drugs that are used when there is a lack of natural chemical messenger is called a) antagonists b) agonists c) analgesics d) narcotics		nessenger is called
5.	(a) '	rmus aquatics is the source of Vent polymerase (b) Primase enzyme Taq polymerase (d) Both a and c SECTION - B (15 Marks)	
		Answer ALL Questions ALL Questions Carry EQUAL Marks	$(5 \times 3 = 15)$
6.	(a) (b)	Explain LINEs. (OR) What are single nucleotide polymorphisms?	
7.	(a)	Write notes on procedure of the human genome project. (OR) Describe the role of craig venter human genome project.	
8.	(b) (a)	write notes on application of mass spectrometry. (OR)	
9.	(b) (a)	Give a detail notes on Proteomics. Write short notes on Target identification. (OR)	
10.	(b) (a)	Explain genomic medicine. Explain microarray technology. (OR)	
	(b)	Write short notes on Structural proteomics.	Cont

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SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks $(5 \times 6 = 30)$

11. (a) Describe SINES.

(OR)

- (b) Briefly explain transcriptomics.
- 12. (a) Differentiate YAC and BAC Vectors.

(OR)

- (b) Give detail account on transcriptomics.
- 13. (a) Explain 2D Gel Electrophoresis.
 - (b) Briefly explain Sequence a Peptide.
- 14 (a) Briefly explain Pharmacogenomics.

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- (b) Give detail notes on high-throughput screening.
- 15 (a) List out the Proteomics Applications.

(OR)

(b) Briefly explain peptide microarray.

Z-Z-Z END