		Time: 3 hours	Marks: 100
Q1) A) Fill in the blanks choosing	the correct options given in the brack	et and rewrite the
sentence:			(5 Marks)
a) In the statistical term		, the data divided in to two sides	, in which one is
	r and the other is smaller.(M		
b)	is the gran	n molecular weight of solute dissolved	l in one kilogram of
solven	nt. (Normality, Molarity, Mol	lality)	
c)	method of transgene	esis is used to insert the DNA fragmer	nt into the embryonic
stem c			
(Cloni	ing, DNA microinjection, En	nbryonic stem cell transplant)	
d) Insi	ulin hormone is secreted by _	of pancreas.	
	s, δ cells, λ cells)		
		used to count the hydrogen ion concer	ntration in the solution.
	rophoresis, pH meter, colorii		
B) Ma	atch the columns I and II and	d rewrite:	(5 Marks)
	Column I	Column II	
a)	Biohazards	i) Bar Diagram	
b)	Graphical representation	ii) DNA Fingerprinting	
c)	Celsius	iii) Pathogenic virus	
d)	RFLP	iv) Gene therapy	26
e)	Cystic fibrosis	v) Temperature scale	
C) Sta	ite whether true or false.		(5 Marks)
	Oxidising chemicals can destroy body tissue and metal parts.		
	Mode value is always the middle value of the sample data.		
	Deficiency of ADA enzyme		
d)			
	samples.		·
e)		be used to magnify up to 10000X ma	gnification.
D) An	swer the following in one se	ntence:	(5 Marks)
	Define Normality		,
2.	9 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3, 57, 67, 67 47, 57, 57, 57, 57, 57, 57, 57, 57, 57, 5	
3.6	4 6 6 6 6 8 6 6 6 6 6 6 6		
4.	Describe chromatography	200 P. J.	
5.	Describe Ultra centrifuge	A STATE OF THE STA	
Q2)	A) Answer any one of the	following:	(10 Marks)
プログイン	15 70, 50, UN VB, UI BY VO 'P, E.	bols and explain the following pictogr	· · · · · · · · · · · · · · · · · · ·
1 1 1 m	hable and Oxidising agent.		,
OL P.	OR		
A) Ex	5 7 N S S S S S S S S S S S S S S S S S S	multiple bar diagrams with suitable e	xample.
360	1. 5. 2. 2. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.	-	-
~ ' (h (= C V (X (3) = 1.1)		

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Q2) B) Write note on any two from the following:

(10 Marks)

- a) Molarity
- b) Scope of Biostatistics.
- c) Pie diagram
- d) Safe laboratory measures

Q3) Answer **any one** of the following:

(10 Marks)

A) Describe the method of DNA finger printing.

OR

A) Give the achievements in of Biotechnology in the field of Aquaculture/ Animal Husbandry/ Medical.

Q3) B) Write note on any two from the following:

(10 Marks)

- a) Ethical issues of transgenesis
- b) Cloning
- c) Describe the method of animal cloning
- d) In-vivo Gene therapy

Q4) Answer any two from the following:

(20 Marks)

- a) Describe the principle and application of centrifuge.
- b) Explain the principle and application of Colorimeter.
- c) What is pH? Give principle and application of pH meter.
- d) Describe the components of a compound microscope.

Q5) Write short notes on any Four.

(20 Marks)

- a) What are Biohazards
- b) Characteristics of solution
- c) Green Florescent Protein Gene
- d) Method of Nuclear transplantation
- e) Explain the applications of PAGE
- f) Write Principle and application of spectroscopy

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