SUBJECT CODE NO: - Y-2046 FACULTY OF SCIENCE AND TECHNOLOGY P. So. (BATTERN 2012) S.Y. (SEM HD)

B.Sc. (PATTERN-2013) S.Y. (SEM III)

Examination April / May - 2024 Zoology Paper-VIII Genetics- II

[Time: 1:30 Hours]

[Max. Marks: 50]

Please check whether you have got the right question paper.

N.B

- 1) All questions are compulsory.
- 2) All questions carry equal marks.
- Q.1 Define gene. Explain transcription of gene.



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OR

Define population genetics. Explain gene pool and gene frequency.

Q.2 Define genetic engineering. Explain concept and types of restriction enzymes.

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OR

Write short notes on any four of the following:

- [A] Hardy-Weinberg law
- [B] Monozygotic Twin
- [C] Down's syndrome
- [D] DNA fingerprinting
- [E] Conjugation
- [F] Application of r-DNA

Q.3 Multiple choice questions:

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- 1. Which of the following are non-sense codon?
 - a) AUG
- b) UAA
- c) GDG
- d) UCU
- 2. Restriction enzyme are also called
 - a) Restriction endonuclease
 - b) Restriction sites
 - c) Restriction polymerase
 - d) Both a & b

3. In prokaryotes, transcription process Oc	ecurs in
a) DNA	b) Cytoplasm
c) Nucleus	d) Golgi bodies.
	The state of the s
4. The Y-linked inheritanceis inhe	ritance
a) Criss cross	b) Loop
c) Jumping	d) Straight
5. The number of chromosomes a child	with Down's Syndrome has.
a) 45 b) 47 c) 46	d) 48
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6. Conjoined twins are also known as	trues to work possess menting and out
a) Siamese twins	b) Fraternal twins
c) Dizygotic twins	d) None of these
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7. Transfer of genes from one cell to and	other cell by a bacteriophase is
known as	
a) Conjugation	b) Recombination
c) Transduction	d) Transformation.
8. First licensed drug produced through	genetic engineering is
a) Penicillin	b) Insulin
c) Interferon	d) All of these
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9. The DNA fingerprinting is same for_	* LIBRAIL *
a) Cousins	b) Siblings
c) Monozygotic twins	d) Dizygotic twins.
	nowser A
10. The first step of gene therapy would	be
a) Culture of the lymphocytes from	
b) Using vector for transmitting g	gene Samurang Asias alami
c) C DNA was prepared	
d) C DNA was inserted directly i	n cell.