B.Sc. (Part I I) (Semester IV)(NEP) Examination Mar/Apr-2024

Balasaheb Desai College, Patan

Microbiology

Subject Code –78914

Microbial Genetics & Molecular biology (Paper –VII)

Day and Date – Time -	Marks- 40 Period- 2 hours
To do a disconsistential and a disconsistenti	Pages- 2
Instruction - 1) All the questions are compulso	
2) Figures to the right indicate full	
3) Draw neat labelled diagrams w	vherever necessary.
Q.1 Rewrite the following sentences choosing the corr 1. Frame shift mutations are caused by	rect alternatives given below. 8
a) Acridine dyes b) 5- bromouracil c) Nitrou	s acid d) Hydroxyl mine
2. The pili are encoded by	
a) F- Plasmid b) R Plasmid c) Metabolic plasm	mid d) Virulence plasmid
3 is initiation codon.	
a) AUG b) UGA c) UAA d) UGA	
4 DNA repair system depends on visible light	
a) Base Excision b) Nucleotide excision c)) Photo reactivation d) SOS
5. Split genes start and end with	
a) Introns b) exons c) recons d) citrons	
6 truly brings induction of Lac operon.	
a) Glucose b) Allocates c) Lactose d) Galactose	e
7. Intake of the naked DNA from the environment by the	cell is called as
a) Transformation b) Transduction c) Conjuga	ation d) Vertical gene transfer
8is the left handed helical DNA.	
a) A b) B c) C d) Z	

Q.2. Attempt following question (Any Two)	16
1. What is Plasmid? Explain types and their properties.	
2. Discuss various properties of genetic code.	
3. Explain DNA repair by – Photo reactivation and Excision repair.	

Q.3. Write short notes on (Any Four)

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- 1. A form of DNA
- 2. Structure of Lac operon.
- 3. Split gene.
- 4. pBR322.
- 5. Spontaneous mutation.
- 6. Competence.