QP-2870 Total No. of Pages : 3

## OCT\_NOV\_2024 WINTER EXAMINATION

2354 Bachelor of Science

Sub. Name: MICROBIOLOGY -VII (MICROBIAL GENETICS & MOLECULAR BIOLOGY)

Sub. Code: 94265

Day and Date: JANUARY ,02-01-2025 Time: 10:30 AM To 12:00 PM			Total Marks: 40
Inst	tructio	ons: 1. All questions are compulsory 2. Draw neat labelled diagrams wherever necessary 3. Figures to the right indicate full marks	
Q1)	Rev	rite the following sentences choosing the correct alternatives given	below. [8]
	i.	Frame shift mutations are caused by	
		A. Acridine dyes B. 5- bromouracil C. Nitrous acid D. Hydroxyl amine	
	ii.	The pili are encoded by	
		A. F- Plasmid B. R Plasmid C. Metabolic plasmid D. Virulence plasmid	
	iii.	is initiation codon.	
		A. AUG B. UGA C. UAA D. UGA	
	iv.	DNA repair system depends on visible light.	
		<ul><li>A. Base Excision</li><li>B. Nucleotide excision</li><li>C. Photo reactivation</li><li>D. SOS</li></ul>	

Split genes start and end with -----

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	[2]	P.T.O.
f.	Competence.	
e.	Spontaneous mutation.	
gd.	pBR322.	
<sub>2</sub> c.	Split gene.	
4 b.	Structure of Lac operon.	
4a.	A form of DNA	
	e short notes on (Any Four)	[16]
c.	Explain DNA repair by Photo reactivation and Excision repair.	
b.	Discuss various properties of genetic code.	
a.	What is Plasmid? Explain types and their properties.	[]
2) Atte	D. Z. empt following question (Any Two)	[16]
	B. B C. C	
VIII.	A. A	
viii.	D. Vertical gene transfer	
	C. Conjugation	
	A. Transformation B. Transduction	
vii.	Intake of the naked DNA from the environment by the cell is called as	4
	D. Galactose	
	B. Allocates C. Lactose	
	A. Glucose	
vi.	truly brings induction of Lac operon.	
	C. recons D. citrons	
	B. exons	
	A. Introns	

Q2)

Q3)