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1ST YEAR REVISION & TEST SESSION

NAME:				ROLL NO:		TIME:	50: MIN
SUB:	Biology	Date:				CLASS:	1st Year
SYLLABUS	Chp. 2 (Bacteria and Viruses)			T. MARKS	28	OBT. M	

Q. 1 Choose the Correct Answer. Cutting, Erasing, Double Selection is Strictly Prohibited. (1x6=6)

1. **Which of the following component is not found in all kinds of bacteria:**
   (A) Ribosomes (B) Cell membrane (C) Nucleoid (D) Capsule
2. **In bacterial cells, respiration occurs at:**
   (A) Mitochondria (B) Cell division (C) Ribosomes (D) Endoplasmic reticulum
3. **What is the primary function of flagella in bacterial cells?**
   (A) DNA replication (B) Cell division (C) Motility (D) Protein synthesis
4. **Which type of motility in bacteria is mediated by pills:**
   (A) Brownian movement (B) Gliding motility (C) Twitching motility (D) Swarming motility
5. **Which of the following bacterial structures is responsible for detecting and responding to chemical:**
   (A) Capsule (B) Pili (C) Flagella (D) Ribosomes
6. **The enzymes responsible for converting HIV RNA into DNA:**
   (A) RNA polymerase (B) Reverse transcriptase (C) DNA helicase (D) Integrase

PART-I

Q. 2 Write Short Answers of the Following Questions (2x7=14)

i. Write the composition of the peptidoglycan layer in bacterial cell walls.
ii. How can plasmids be used in genetic engineering?
iii. What is the function of the bacterial capsule?
iv. What are plasmids, and how do they contribute to enabling bacteria to resistance against unfavourable condition?
v. How do monotrichous and peritrichous bacteria differ in their movment?
vi. Differentiate between twitching and gliding movement in bacterial motility.
vii. Why are nitrogen-fixing bacteria essential in agriculture?

PART-II

Write Answers of the Following Questions in Detail.

Q. 3 (a) Briefly describe the ecological and economic importance of bacteria 4
(b) Explain the structure of a model bacteria and HIV 4

Answer Key							
1	D	**2**	A	**3**	C	**4**	C
5	C	**6**	B				