

Roll No. ....

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**B. Sc. (Hons.) Chemistry 4th Semester Examination – May, 2019**

**ZOOLOGY (MICROBIOLOGY)**

**Paper : CH(N)-4050Pt-ii**

Time : Three hours ] [ Maximum Marks : 50

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

**Note :** Attempt *five* questions in all. Question No. **1** is *compulsory*. Attempt remaining *four* questions, selecting *one* from each Unit. Marks are shown against each question.

**1.** Define the following in about **20** words each :

10 × 1 = 10

(a) Bacteriophage

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- (b) Junk DNA
- (c) Mutagens
- (d) Plasmid
- (e) Helicases
- (f) Genetic code
- (g) Housekeeping genes
- (h) Inducer
- (i) Operon
- (j) Diauxic growth

**UNIT – I**

**2.** Write note on Bacterial Gene Mapping by Conjugation. 7.5

**3.** What are transposons ? How they affect genes ? 7.5

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**UNIT – II**

**UNIT – IV**

4. Write detailed note on different types of DNA replication mechanisms. **7**

8. What is Human Genome Project ? Discuss its goals. **7.5**

5. Write note on the following : **7**

9. Discuss the mitochondrial genome : structure, replication, transcription and translation. **7.5**

(a) Chemical mutagenesis.

(b) PCR mutagenesis.

**UNIT – III**

6. (a) How protein was ruled out as molecule of genetic information ? Explain. **3**

(b) Describe bacterial replication in detail. **4.5**

7. Write short note on the following :

(a) RNA Polymerases **3**

(b) Types of DNA **4.5**

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