



**B.Sc. IV Semester Degree Examination, Sept./Oct. - 2024**

**ZOOLOGY**

**DSC 3 : Gene Technology, Immunology and Computational Biology  
(NEP)**

Time : 2 Hours

Maximum Marks : 60

- Note :** (i) Answer **all** sections.  
(ii) Draw labelled diagrams wherever necessary.

**SECTION - A**

Answer the following sub-questions.

**10x1=10**

1. (a) What is Vector ?  
(b) Expand "SCID".  
(c) Define Ligase.  
(d) What is Transgenic Plant ?  
(e) What are Interferons ?  
(f) What is Acquired Immunity ?  
(g) Name any two Vaccines.  
(h) Name any two diseases caused by Bacterial Infection.  
(i) Define Biostatistics.  
(j) What do you mean by Mode ?

**SECTION - B**

Answer **any four** of the following questions.

**4x5=20**

2. Write a short note on Transgenic Cow.
3. Give a brief account of T-Lymphocytes.
4. Describe briefly about any two Protozoan Infections.
5. Explain briefly about PBR<sup>322</sup>.
6. Give an account of Histogram.
7. Write a brief note on Biosensors.



**SECTION - C**

Answer **any three** of the following questions.

**3x10=30**

8. Explain in detail about the steps involved in r-DNA Technology.
9. Explain the mechanism of second line of body defence.
10. Explain Immunization schedule for children.
11. Enumerate the applications of Genetic Engineering.
12. Write a detailed note on Range and Standard Deviation.

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