NS4S-4155-B-24

B.Sc. IV Semester (NEP) Degree Examination ZOOLOGY

Gene Technology, Immunology and Computational Biology

Paper : DSC-4

Time: 2 Hours

Maximum Marks: 60

Instructions to Candidates:

- 1) All Sections are Compulsory.
- Draw diagram wherever necessary.
 SECTION-A

I. Answer any Five of the following.

(5×2-10)

- Define Endonucleases with example.
- 2 Define Gene Therapy.
- 3. What is Chemotherapy?
- Acquired Immunity.
- Function of FASTA.
- Define mean with formula
- 7. What is Composite database.

SECTION-B

II. Answer any Five of the following.

(5×4-20)

- Write about Gene cloning vector COSMIDs.
- Applications of Monocloral bodies.
- 10. What is the role of lymph nodes in body defence.
- H. Enumerate the uses of Vaccines.
- Define Bioinformatics and add a note on its applications.
- Give an account of properties of antigens.
- +14. Explain bar diagram

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(1)

SECTION-C

III. Answer any Three of the following.

(3×10-30)

- 15. Give an account of first line and second line of defence.
- Write the function of different classes of Immunoglobulins.
- / 17. Explain gene silencing, knockout and knock in mouse.
 - 18. The given table shows the scores obtained by different players in a Machi. Calculate the Mean and median of the following data.

S.No	Name	Scor
1	Sachin	7 0 80 L
2.	Yuvraj ***	52
3.	Virat	.gai0ro
4.	Sehwag	52
<i>5</i> .	Rohit	70
6.	Dhoni	16
7.	Harbhajan	6