



K23U 1556

Reg. No. :

Name :

VI Semester B.Sc. Degree (CBCSS – OBE-Regular) Examination, April 2023
(2020 Admission)

Core Course in Life Sciences (Zoology) and Computational Biology
6B14 ZCB : HEALTH AND IMMUNOINFORMATICS

Time : 3 Hours

Max. Marks : 40

PART – A

Write about **each** of the following in **2** or **3** sentences. **Each** question carries **1** mark. (6×1=6)

1. Define Electronic Health record.
2. Antigen presenting cells.
3. Expand MALT.
4. What is health informatics ?
5. IMGT tools for Genomic approach.
6. Name the modelling methodologies in health care systems.

PART – B

Explain about **any six** of the following. **Each** question carries **2** marks. (6×2=12)

7. Generic health care information model.
8. Information systems in medicine.
9. Mention the different classes of immunoglobulins.
10. HER standards.
11. IPD-HPA.

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12. Illustrate the structure of MHC-I molecule.
13. IMGT/3Dstructure-DB.
14. What are the requirements of Medical systems in the internet environment ?

PART – C

Write short essay on **any four** of the following. **Each** question carries **3** marks. **(4×3=12)**

15. Unified modelling language.
16. Structure and function of lymph node.
17. Explain the types of vaccine.
18. Architecture of health care systems.
19. Role of immunogenomics in vaccine development.
20. Building blocks of health care informatics.

PART – D

Write essay on **any two** of the following. **Each** question carries **5** marks. **(2×5=10)**

21. Briefly explain the steps involved in cytosolic pathway with a neat labelled diagram.
 22. Immune Epitope Database (IEDB).
 23. Explain the various methods involved in B-cell epitope prediction.
 24. Telemedicine development.
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