

Reg. No. :

Name :

Sixth Semester B.Sc. Degree Examination, April 2023

First Degree Programme under CBCSS

Zoology

Foundation Course II

**ZO 1621 : GENERAL INFORMATICS, BIOINFORMATICS AND
MOLECULAR BIOLOGY**

(2015-2018 Admission)

Time : 3 Hours

Max. Marks : 80

I. Answer the following questions (In **one** or **two** sentences).

1. Cryptography

2. Reverse transcription

3. Microcomputer

4. Genetic code

5. Blog

6. DNA repair

7. Phishing

8. Proteomics

9. Cyber crime

10. Codon

(10 × 1 = 10 Marks)

P.T.O.

II. Answer any **eight** of the following (Not to exceed one paragraph. Each question carries **2** marks).

11. Artificial Intelligence
12. Differentiate bioinformatics and Computational biology
13. Wobble hypothesis
14. Green computing
15. Gen Bank
16. Ribosomal RNA
17. Phylip
18. Chaperones
19. Personalized medicine
20. E-waste
21. RNA Polymerase
22. Plagiarism

(8 × 2 = 16 Marks)

III. Answer any **six** of the following. Not to exceed **120** words. Each question carries **4** marks

23. IPR
24. Watson and Crick model of DNA
25. Computer ergonomics
26. Contribution of Nirenberg

27. Repressible system of gene regulation in prokaryotes
28. Application of ICT in crime detection
29. Phylogenetic tree – Different types
30. Different structural forms of DNA
31. RAM

(6 × 4 = 24 Marks)

IV. Answer any **two** of the following. **Each** question carries **15** marks.

32. Mechanism of transcription and post-transcriptional modifications.
33. Bioinformatic tools.
34. Give an account on bacterial recombination.
35. Popular data bases in bioinformatics.

(2 × 15 = 30 Marks)
