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K – 2440

Reg. No. : .....

Name : .....

**Third Semester B.Sc. Degree Examination, March 2021**

**First Degree Programme Under CBCSS**

**Zoology**

**Core Course – III**

**ZO 1341 — EXPERIMENTAL ZOOLOGY, INSTRUMENTATION  
BIOSTATISTICS AND BIOINFORMATICS**

**(2019 Admission Regular)**

Time : 3 Hours

Max. Marks : 80

Draw diagrams only if specified in the question.

- I. Answer **all** questions in **one** or **two** sentences. **Each** question carries **1** mark.
1. Name the branch for the study of Ductless Glands and Hormones.
2. Mention opportunities for further studies in Zoology.
3. Distinguish anthropology from entomology.
4. What is a Colorimeter?
5. Comment on Normal Distribution.
6. What is Probability?
7. Define Ornithology.

P.T.O.

- 24.
- 25.
8. What is a Microtome?
9. Give two examples of Data presentation in Science.
10. Name a stain used in light microscopy.

(10 × 1 = 10 Marks)<sup>26</sup>

- II. Answer **any eight** out of **sixteen** questions. **Each** question carries **2** marks and should not exceed **1** paragraph.
11. Explain the role of Scoring Matrixes in Bioinformatics.
12. List the various Input Devices of a PC.
13. Give the significance of "Booting up" in Personal Computer.
14. Comment on TEM.
15. Mention the use of Centrifuge.
16. Define Standard Deviation.
17. Mention the uses of Chromatography.
18. Comment on Census method.
19. What is a Histogram?
20. Explain Null Hypothesis.
21. Comment on Apiculture.
22. Differentiate Mean from Median.
23. Explain any one Molecular Visualisation software.

- 24. Comment on Auto radiography.
- 25. Give the significance of Linux Open Source.
- 26. Distinguish Guarantee from Warranty.

**(8 × 2 = 16 Marks)**

III. Answer **any six** out of **twelve** questions. **Each** question carries **4** marks. **Each** answer should not exceed **120** words.

- 27. Mention the uses of FASTA software package.
- 28. Describe a Statistical Test used to accept or reject a hypothesis.
- 29. Explain structure of RNA, with a labeled diagram.
- 30. Give any two Photometry techniques and their principle.
- 31. Comment on ORF finding.
- 32. Write a short note on Correlation in data prediction.
- 33. Define Molecular phylogenetics.
- 34. What is a Dark field Microscope?
- 35. Elaborate on properties of Computer Networking.
- 36. Explain OMIM.
- 37. Differentiate DNA from RNA.
- 38. Describe various Biomolecules.

**(6 × 4 = 24 Marks)**

IV. Answer **any two** out of **six** questions. **Each** question carries **15** marks. Answer as a **short essay**.

39. Describe the features of a modern PC and its Peripherals.
  40. Citing suitable examples, explain uses of the Internet.
  41. Write an essay on Institutes of Scientific importance in India.
  42. Explain the principle, types and advantages of an Electron Microscope.
  43. Elucidate the main concepts in Computer aided Drug Discovery.
  44. List major Branches of Zoology, and mention the Career opportunities.
- (2 × 15 = 30 Marks)**
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