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K – 2388

Reg. No. : .....

Name : .....

Third Semester B.Sc. Degree Examination, March 2021

First Degree Programme under CBCSS

Zoology

Core Course III

ZO 1341 – METHODOLOGY AND PERSPECTIVES OF ZOOLOGY

(2015 to 2018 Admission)

Time : 3 Hours

Max. Marks : 80

SECTION – A

I. Answer **all** questions in one or two sentences (Each question carries **1** mark).

1. Define science.
2. What is scientific temper?
3. What is plagiarism?
4. Define empiricism.
5. What is null hypothesis?
6. Define patent.
7. What is standard error?
8. What is Rf value?
9. What is Svedberg unit?
10. Expand CDRI and CMFRI.

(10 × 1 = 10 Marks)

P.T.O.

SECTION – B

II. Answer **any eight** of the following (Each question carries **2** ma
(Answer not to exceed one paragraph each)

11. Write short notes on scientific revolution.

12. What is controlled observation?

13. What is peer review?

14. Write notes on pseudoscience.

15. What is standard score?

16. Write short notes on Chi-square test.

17. Write short notes on taxidermy.

18. Distinguish between standard deviation and variance.

19. Write short notes on microtomy.

20. What is Beer-Lambert's law?

21. Write short notes on density-gradient centrifugation.

22. What are the activities of ZSI?

(8 × 2 = 16 Marks)

SECTION – C

III. Answer **any six** of the following (Each question carries **4** marks)
(Each answer should not exceed **120** words)

23. Write notes on types of knowledge.

24. Discuss the impact of science in human life.

25. Write notes on types of experiments in science.

26. Explain briefly different sampling methods.

27. Describe normal probability distribution.

28. What is test of hypothesis? Add notes on student's t test.

29. Explain briefly principle and application of phase contrast microscopy.

30. Write notes on autoradiography.

31. Describe the techniques of biological specimen preparation.

(6 × 4 = 24 Marks)

SECTION – D

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

32. Explain in detail the principle, types and applications of electron microscopy.

33. Provide a detailed account of diagrammatic and graphical presentation of data.

34. Write an essay on design of experiments.

35. Give a detailed account on scientific methods.

(2 × 15 = 30 Marks)
