

Reg. No. :

Name :

Third Semester B.Sc. Degree Examination, October 2019

First Degree Programme under CBCSS

ZOOLOGY

Core Course III

ZO 1341 : METHODOLOGY AND PERSPECTIVES OF ZOOLOGY

(2015 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

- I. Answer the following questions (in one or two sentences). Each question carries 1 marks.
1. What is taxidermy?
 2. Comment on Interactive bioethics.
 3. Define Pseudoscience.
 4. What is Electron gun?
 5. Define Census.
 6. What is Primary data?
 7. Define resolving power of microscope.
 8. Importance of a monochromator.
 9. Define species.
 10. Define null hypothesis.

(10 × 1 = 10 Marks)

P.T.O.

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

11. Comment on oil immersion objectives.
12. What is the method for calculating the magnification of microscope?
13. Explain the methods of making laws in science.
14. What is standard error?
15. Differentiate between controlled and uncontrolled observations.
16. Comment on scientific temper.
17. Describe the method of scientific naming.
18. What is patent?
19. Comment on virtual testing.
20. Write notes on zoological survey of India.
21. Describe electromagnetic lens.
22. What is Rf- value?

(8 × 2 = 16 Marks)

III. Answer **any six** questions (Not to exceed 120 words. Each question carries **4** marks).

23. Explain normal distribution.
24. Write down the principle and application of autoradiography.
25. Give an account on Chi-square test.
26. What is science? Explain the features of science.

27. Describe types of centrifugation.
28. Write notes on plagiarism.
29. What are different types of knowledge?
30. How will you design a scientific experiment?
31. Write down the principle of spectrophotometer.

(6 × 4 = 24 Marks)

IV. Answer **any two** questions. Each question carries **15** marks.

32. Describe important analytical techniques used in biology.
33. Explain various measures of central tendency. What are the merits and demerits?
34. Discuss various methods of sampling.
35. Write down principle and working of phase contrast microscope.

(2 × 15 = 30 Marks)