MAR IVANIOS COLLEGE (AUTONOMOUS)
THIRUVANANTHAPURAM

Reg. No. :…… **Name :…….**

Third Semester B.Sc. Degree Examination, November 2015

First Degree Programme under CBCSS

Core Course: Zoology – II

AUZO341: Methodology and Perspectives of Science and Zoology

Time: **3** Hours Max. Marks: **80**

SECTION – A

*Answer **ALL** questions in one or two sentences.*

1. What is Epistemology ?
2. What is Camera Lucida ?
3. Define median.
4. What is a vital stain ?
5. Give expansion of ICZN.
6. What is an ultra microtome ?
7. What is range in dispersion measures ?
8. What is practical knowledge ?
9. Who is the father of Indian green revolution ?
10. What is trinomial nomenclature ?

(10 × 1 = 10 Marks)

SECTION – B

*Answer any **EIGHT** questions, each in a short paragraph not exceeding 50 words.*

11. What is Pseudoscience ?
12. What are the types of Knowledge ?
13. What is white revolution ?
14. What is Inductive reasoning ?
15. What is IPR ?

16. What is plagiarism ?
17. What is shadow casting ?
18. What is micrometry ? Write the steps and formula for finding calibration factor.
19. What is sampling ? What are the different types of sampling ?
20. What is data ? What are the types of data based on source ?
21. Which are the major branches of Zoology ?
22. What is numerical taxonomy ?

(8 × 2 = 16 Marks)

SECTION – C

*Answer any **SIX** questions, each in a paragraph not exceeding 120 words.*

23. Differences between SEM and TEM.
24. Explain the principle of spectrophotometer.
25. What is Bioethics ?
26. Describe the major steps in histological staining.
27. What is five – kingdom classification ?
28. Construct a Pi diagram to represent the following data

Group	Students
A	5
B	20
AB	10
O	15

29. What is chromatography ? Mention the major types of chromatography.
30. What is a phase contrast microscope ? Describe the working.
31. Explain the major type of robots.

(6 × 4 = 24 Marks)

SECTION – D

*Answer any **TWO** questions, not exceeding four pages.*

32. Write an essay on the major steps involved in designing an experiment.
33. Describe the various methods in representing scientific data.
34. Describe the major types of microscopy.
35. Explain the new trends in systematics.

(2 × 15 = 30 Marks)

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