MAR IVANIOS COLLEGE (AUTONOMOUS)
THIRUVANANTHAPURAM

Reg. No. :…………………　　　　　　　Name :………………….

Third Semester B.Sc. Degree Examination, November 2016
First Degree Programme under CBCSS
Core Course: Zoology – II
AUZO341: Methodology and Perspectives of Science and Zoology

(*for 2014 Admissions – **Improvement** Only*)

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

SECTION – A

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

1.　What is robotics ?

2.　Define median.

3.　What is meant by hypothesis ?

4.　What is fixation ?

5.　Define species.

6.　Differentiate between Deductive reasoning and Inductive reasoning.

7.　Give two applications of Camera Lucida.

8.　What is frequency polygon ?

9.　Explain the term Bioethics.

10.　What is null hypothesis ?

(10 × 1 = 10 Marks)

SECTION – B

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

11.　What is the difference between SEM and TEM ?

12.　Give two applications of spectrophotometer.

13.　Explain plagiarism.

P.T.O.

14. What is instrumental error ?
15. Explain biased observation.
16. What is meant by Data collection ?
17. What is the principle of Homonymy ?
18. Write down the principle of colorimeter.
19. What are taxonomic aids ?
20. Give the uses of autoradiography.
21. What is meant by blue revolution ?
22. What is patent ?

(8 × 2 = 16 Marks)

SECTION – C

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

23. Explain depositories of scientific information.
24. Explain the principle of chromatography.
25. List the major disciplines of Science.
26. Write a note on new trends in Taxonomy.
27. Give an account on different types of graphs.
28. Describe different types of centrifuges.
29. Give a short account on different branches of Zoology.
30. What do you understand by sampling ?
31. List out the various steps in scientific method.

(6 × 4 = 24 Marks)

SECTION – D

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

32. Write an essay on phase contrast microscopy. Give its advantages.
33. Outline the major steps involved in histological preparation of specimens for light microscopy.
34. Briefly explain the various kinds of Data presentation.
35. Define Taxonomy. Explain nomenclature and principles.

(2 × 15 = 30 Marks)

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