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Reg. No. : .....

Name : .....

Third Semester B.Sc. Degree Examination, January 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

SECTION – A

I. Answer **all** questions in **one** to **two** sentences. **Each** question carries **one** mark. (Draw diagrams only if specified in the question).

1) What is attribute ?

2) What do you mean by simulation ?

3) Define Rf Value.

4) What do you mean by alternative hypothesis ?

5) What is vital stain ?

6) What is partition coefficient ?

7) What do you mean by Variance ?

8) Write note on IISc.

9) What is scientific law ?

10) Define Svedberg unit.

(10x1=10 Marks)

SECTION – B

II. Answer **any 8** questions. **Each** question carries **2** marks. (Answer **not** to exceed **one** paragraph).

11) What are the characteristics of a good measure of central tendency ?

12) What do you mean by normal distribution ?

13) Comment on Rajiv Gandhi Centre for Biotechnology.

14) What are the special devises used in phase contrast microscope ? Comment on its function.

15) Mention the present activities of Centre for DNA fingerprinting and Diagnostics.

16) Comment on dark field microscope.

17) Write notes on the application of Autoradiography.

18) Comment on primary data.

19) What are the requirements for getting patent ?

20) What are the advantages of spectrophotometry over colorimetry ?

21) A student needs to identify amino acids present in the haemolymph of termite, which technique you may suggest ?

22) Comment on indirect observations. **(8×2=16 Marks)**

SECTION – C

III. Answer **any 6** questions. (Answer **not** exceed **120** words). **Each** question carries **4** marks.

23) Comment on the salient features of zoological naming.

24) Briefly explain principle and working of fluorescence microscopy.

25) What are the different type of bar diagrams used for the representation of data ?

26) Protein content of 100 fishes in (gm) of a species were obtained as below. Find the median.

Protein content	5	5.5	6	6.5	7	7.5	8	8.5
Number of Fishes	2	4	8	10	15	25	22	14

27) Briefly explain revolution in science and technology.

28) Mean is the most suitable measure of central tendency. Justify.

29) What are the different methods of preservation of insects ?

30) Write note on different type of centrifuges.

31) Plot a pie chart using the data.

Districts	Kottayam	Kasaragod	Pathanamthitta	Idukki	Wayanad
Pepper production in tons	1200	500	700	1300	1400

(6×4=24 Marks)

SECTION – D

IV. Answer **any 2** questions. (**Not** more than **3** pages). **Each** question carries **15** marks.

32) Write an essay on different type of electron microscopes.

33) Write an essay on experimentation and different type of experiments.

34) Explain sampling methods.

35) Discuss various tests for measuring significance. **(2×15=30 Marks)**