



(Pages : 3)

F – 4064

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.

(10×1=10 Marks)

P.T.O.



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 devices 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)
-