K19P 0312

Reg. No. : .....

Name : .....

II Semester M.Sc. Degree (Reg./Suppl./Imp.) Examination, April 2019
(2014 Admission Onwards)
ZOOLOGY
ZOO 2C06 : Biophysics and Biometry

Time : 3 Hours Max. Marks : 60

PART – A
(**Biophysics**)

I. Answer **any two** of the following :

1) Define radioactivity. Explain the methods available for the detection and measurement of radiation.

2) Describe the principle and applications of PAGE.

3) Explain the principle of electron microscope. Give an account of TEM and SEM.

4) What is chromatography ? Explain the principle and applications of HPLC. **(2×12=24)**

II. Answer **any one** of the following :

5) Explain light and dark cycles of photosynthesis.

6) Describe the structure of an eye and explain the formation of image. **(1×8=8)**

III. Write briefly on **any two** of the following :

7) Explain biomagnetism.

8) Write a note on echolocation.

9) Comment on ultracentrifugation. **(2×5=10)**

P.T.O.

PART – B
(Biometry)

IV. Answer **any one** of the following :

10) Discuss the probability theory. Explain probability distributions.

11) The weight (kg) of eight pupils of the age group of 10 years are given below : 30, 28, 31, 37, 34, 38, 42 and 40. Compute the mean, median and standard deviation. **(1×8=8)**

V. Answer **any two** of the following :

12) Comment on ANOVA.

13) Write a note on pie diagram.

14) Explain t-test and F-test. **(2×5=10)**
