



K18P 0146

Reg. No. : .....

Name : .....

**Second Semester M.Sc. Degree (Regular/Supplementary/Improvement)  
Examination, March 2018**

**ZOOLOGY**

**(2014 Admn. Onwards)**

**ZOO2C06 – Biophysics and Biometry**

Time : 3 Hours

Max. Marks : 60

**PART – A  
(Biophysics)**

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

- 1) What is chromatography ? Describe the principle, procedure and application of HPLC.
- 2) What is autoradiography ? Explain the principle and working of liquid scintillation and gamma counters.
- 3) Discuss the principle, method and application of TEM and SEM.
- 4) Write an essay on biophysics of photosynthesis. (2×12=24)

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

- 5) Explain the physical organization of ear. Comment on the physical aspects of hearing.
- 6) Describe the principle and applications of plasma emission spectroscopy. (1×8=8)

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

- 7) Echocardiography.
- 8) Lithotripsy.
- 9) Ramachandran plot.

(2×5=10)

**PART - B**  
**(Biometry)**

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

- 10) Discuss the scope of biometry and applications in biosciences.
- 11) Write an essay on probability distributions.

(1×8=8)

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

- 12) ANOVA test.
- 13) Arithmetic mean.
- 14) Standard deviation.

(2×5=10)