Reg. No. : ....

Name : ....

K20P 0360

II Semester M.Sc. Degree (CBSS-Reg./Suppl./Imp.) Examination, April 2020
(2014 Admission Onwards)
ZOOLOGY
ZOO2C06 : Biophysics and Biometry

Time : 3 Hours   Max. Marks : 60

PART – A
(Biophysics)

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

1) What is chromatography ? Explain the principle and application of HPLC.

2) Define centrifugation. Discuss the principle and application of differential centrifugation.

3) Explain the principle and application of fluorescence microscopy.

4) Describe the principle and application of flow-cytometry.   (2×12=24)

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

5) Define photosynthesis. Explain dark and light reactions.

6) Write an essay on measurement of radioactivity.   (1×8=8)

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

7) Comment on Doppler ultra sonography.

8) Explain X-ray diffraction.

9) Differentiate infra and ultra sonic sounds.   (2×5=10)

P.T.O.

PART – B

(Biometry)

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

10) Explain testing of hypothesis. Comment on tests based on normal distribution.

11) a) Describe the measures of central tendency.

    b) Calculate the mean deviation for the following data :

       2, 4, 5, 7, 8, 10, 12, 13, 14, 15. (1×8=8)

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

12) Write a note on types of regression analysis.

13) Comment on analysis of variance.

14) Describe probability distributions. (2×5=10)

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