K18U 1528

Reg. No. : .....

Name : .....

V Semester B.Sc. Degree (CBCSS – Reg./Sup./Imp.) Examination, November 2018
(2014 Admn. Onwards)
CORE COURSE IN ZOOLOGY
5 B06 ZLG : Biophysics, Biostatistics and Methodology

Time : 3 Hours Max. Marks : 40

I. Answer **any one** of the following : **(1×8=8)**

1) Explain the principle, working methodology and applications of Electron microscope.

2) Describe various Graphic representation of data.

II. Answer **any one** of the following : **(1×8=8)**

3) Write a note on various methods of preservation of biological specimens.

4) Briefly explain on Radiation biology.

III. Answer **any two** of the following : **(2×4=8)**

5) Explain ELISA.

6) Mention key steps of scientific methods.

7) Explain ethics in science.

8) Give brief note on Taxonomic keys.

IV. Answer **any six** of the following : **(6×2=12)**

9) Drosophila culture.

10) Taxidermy.

P.T.O.

11) Sampling errors.

12) Species richness.

13) Microtome.

14) Camera Lucida.

15) pH meter.

16) Importance of Pilot study.

(4×1=4

V. Answer the following :

17) _____ is used to extract soil organism.

18) _____ is a non ionizing radiation.

19) pH value less than 7 indicates _____

20) _____ is the unit of speed of centrifuge.

_____

K17U 1721

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CORE COURSE IN ZOOLOGY
5B06 ZLG : Biophysics, Biostatistics and Methodology

Time : 3 Hours Max. Marks : 40

I. Answer **any one**. **(1×8=8)**

1) Explain the principle of centrifugation. Describe any four types of centrifuges and two types of centrifugation.

2) What are the different methods of presentation of data in biostatistics ?

II. Answer **any one**. **(1×8=8)**

3) Explain the principle and application of electron microscopy.

4) Explain the different methods of preservation of biological specimens.

III. Answer **any two**. **(2×4=8)**

5) What are the different measures of central tendency ? Give equation.

6) What is biodiversity and how is it measured ?

7) What is X-ray crystallography ? Add a note on its application.

8) Write the principle and application of chromatography. Name any two types of chromatography.

IV. Answer **any six**. **(6×2=12)**

9) Explain Plagiarism.

10) What is autoradiography ?

11) What is the principle of SEM ?

P.T.O.

12) What is micrometry ?

13) Give the principle of electrophoresis.

14) Explain the importance of Pilot study in research methodology.

15) What is hypothesis ?

16) What is correlation ?

V. Answer the following : (1×4=4)

17) _____ is used to collect aquatic organism.

18) UV rays are _____ radiation.

19) _____ is unit of speed of centrifuge.

20) _____ is used to draw diagrams of microscopic specimens.