



K20U 1559

Reg. No. :

Name :

**V Semester B.Sc. Degree (CBCSS – Reg./Sup./Imp.)
Examination, November 2020
(2014 Admn. Onwards)
CORE COURSE IN ZOOLOGY
5B06 ZLG : Biophysics, Biostatistics and Methodology**

Time : 3 Hours

Max. Marks : 40

Answer **any one** :

(1×8=8)

1. Explain the principle of polyacrylamide gel electrophoresis and briefly explain its applications in biology.
2. What is called scientific method ? Explain briefly the steps of scientific method.

Answer **any one** :

(1×8=8)

3. What is cell fractionation ? Explain briefly various types of centrifugation.
4. What are the methods of presentation of data by using statistical methods.

Answer **any two** :

(2×4=8)

5. What is null hypothesis ? How to test a hypothesis ?
6. Explain in detail the biological effects of ionizing radiations.
7. What are the different types of ELISA ? Explain.
8. Briefly explain the principle and applications of paper chromatography.

Answer **any six** :

(6×2=12)

9. What is sampling error ?
10. What are diversity indices ?
11. What is taxonomic key means ?

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12. What is the difference between a histogram and a bar diagram ?
13. What is plagiarism in science ?
14. What is fluorescence ?
15. What is meant by resolution of a microscope ?
16. What is empiricism ?

Answer **all** the questions :

(4×1=4)

17. _____ is an example for vital stain.
18. Abbe' formula is related to _____
19. _____ is the light source of a fluorescent microscope.
20. Cumulative frequency curve is otherwise called as _____