



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

FOURTH SEMESTER – APRIL 2018

16UZO4ES03- BIOPHYSICS AND BIostatISTICS

Date: 23-04-2018
Time: 09:00-12:00

Dept. No.

Max. : 100 Marks

Part-A

(10x2= 20 Marks)

Answer all

1. Define variables
2. Differentiate discrete and continuous data
3. Explain viscosity
4. Define Fick's law
5. Differentiate Osmotic pressure and osmosis
6. Explain Haemolysis with suitable examples
7. Explain RF
8. Explain TLC and HPLC
9. Define standard deviation
10. Bar diagram- Define

Part- B

(4x10= 40 Marks)

Answer any four

11. Write a paragraph on ultracentrifuge and their applications
12. Explain HPLC with a neat labelled diagram.
13. Give a Comparative account on polygon and histogram
14. Classify the chromatography with suitable examples
15. Elaborate the qualitative and quantitative classification of data
16. Classify the frequency polygon and frequency curve line graphs.

Part- C

(20x2= 40 Marks)

Answer any two

17. a) Define Correlation – Co efficient
b) Explain in detail correlation – Co efficient with formula
18. a) What are Lasers
b) Explain in detail the ruby laser and add a note on its application
19. a) What are electrons
b) Elaborate the Medical and biological applications of x-ray
20. a) Define a data
b) Write an essay on Diagrammatic and graphical representation of a data

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