

20P115

(Pages: 1)

Name:

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2020

(CBCSS-PG)

(Regular/Supplementary/Improvement)

CC19P ZOL1 C02 - BIOINSTRUMENTATION AND BIostatISTICS

(Zoology)

(2019 Admission onwards)

Time: Three Hours

Maximum: 30 Weightage

I. Answer any *four* questions.

1. PET Scan.
2. ANOVA.
3. Abbe's equation.
4. High voltage electrophoresis.
5. Henderson Hasselbalch equation.
6. Critical region.
7. Box-Whisker plot.

(4 x 2 = 8 Weightage)

II. Answer any *four* questions.

8. Briefly explain nanosensors and nanomedicine.
9. Explain principle and types of centrifugation.
10. Differentiate between SEM and TEM.
11. Short note on frequency curves.
12. Brief account on HPLC.
13. Describe testing of hypothesis.
14. Comment on SDS PAGE.

(4 x 3 = 12 Weightage)

III. Answer any *two* questions.

15. Describe measures of central tendency and dispersal.
16. What is the principle of spectroscopy? Explain any three spectroscopic methods.
17. Explain α diversity indices for ecological data analysis.
18. Write an essay on radiation biology techniques.

(2 x 5 = 10 Weightage)
