E 1268 (Pages : 2) Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, OCTOBER 2015

Third Semester

Core Course—BIOSTATISTICS AND COMPUTER APPLICATION

(For B.Sc. Biotechnology)

[2013 Admission onwards]

Time : Three Hours Maximum : 80 Marks

Part A (Short Answer Questions)

Answer **all** *questions.*
Each question carries 1 *mark.*

1. What is 't'-test ?
2. What is a variable ?
3. Explain standard error.
4. What is a spreadsheet ?
5. Name two protein databases.
6. What is a flow chart ?
7. What is sampling ?
8. What is range ?
9. What is LAN ?
10. What is hypothesis ?

(10 × 1 = 10)

Part B (Brief Answer Questions)

Answer any **eight** *questions.*
Each question carries 2 *marks.*

11. Write a note on bubble sort.
12. What is frequency table ?
13. Differentiate Hardware and Software.
14. Explain Chi-square test.
15. Differentiate primary and secondary data.
16. What is Bioinformatics ?
17. Explain Poisson distribution.
18. Write about computation of standard deviation ?

Turn over

19. Give an account of types of sampling techniques.
20. Explain frequency table.
21. Write a note on programming technique.
22. Explain word processing.

(8 × 2 = 16)

Part C (Short Essay Type Questions)

Answer any **six** *questions.*
Each question carries 4 *marks.*

23. Explain measures of assymmetry.
24. Give an account of nucleic acid databases.
25. Write about measures of central tendency.
26. Explain low level and high level languages.
27. Give an account of data collection.
28. Write about testing of hypothesis.
29. Explain analysis of variance.
30. Explain binary number system.
31. Differentiate correlation and regression analysis.

(6 × 4 = 24)

Part D (Long Essay Type)

Answer any **two** *questions.*
Each question carries 15 *marks.*

32. Write an account of representation of data.
33. Explain computer oriented statistical techniques.
34. Explain measures of dispersion.
35. Give an introduction to internet. Write about its applications.

(2 × 15 = 30)