Reg. No :..................................

Name :...................................

B. SC. DEGREE (C.B.C.S.S) EXAMINATION, OCTOBER 2018
(2016 Admission Regular & 2015 Admission Supplementary)
SEMESTER V - CORE COURSE (BOTANY)
BO5B08TB - RESEARCH METHODOLOGY AND STATISTICS

Time : 3 Hours   **Maximum Marks : 60**

Part A

I. Answer all questions. Each question carries 1 marks   **(5x1=5)**

1. Write notes on INFLIBNET.
2. What is numerical aperture ?
3. What is RAM?
4. What is a polygon?
5. Define Central tendency.

Part B

II. Answer any Five questions. Each question carries 2 marks   **(5x2=10)**

6. Explain the concept of research.
7. Describe the structure of a scientific paper.
8. Give the principle of phase contrast microscopy.
9. Explain the organisation of a computer.
10. Explain the various digital number systems.
11. Write notes on Primary Data.
12. Define Kurtosis.What are the different types?
13. What are the salient features of a good average?

Part C

III. Answer any Five questions. Each question carries 5 marks   **(5x5=25)**

14. Explain the stages of research .
15. Define resolving power of a microscope.Write Abbe's formula to determine the resolving power of a microscope.
16. What is chromatography? Give its applications.
17. Describe the functional components of a computer.
18. Explain the various types of frequency distribution graphs.
19. Define test statistic. What are the common test statistics?
20. Explain statistical errors.
21. Explain t-test.

Part D

IV. Answer any Two questions. Each question carries 10 marks   **(2x10=20)**

22. Describe the structure of a thesis.
23. Write an essay on biophysical instrumentaion.
24. Explain various types of frequency distribution drawings .
25. Explain the characters of frequency distribution.