



Register Number:

Date: 11-01-2021

**ST. JOSEPH'S COLLEGE (AUTONOMOUS), BANGALORE-27**

**M.Sc. Botany - I SEMESTER**

**SEMESTER EXAMINATION: January 2021**

**BO7418 --BIostatISTICS AND BIOinformatics**

**Time- 2 ½ hrs**

**Max Marks-70**

**This question paper contains ONE printed page and THREE parts**

**A. Answer any TEN questions in a or two sentences each 2X10=20**

1. Mahalanobis
2. Skewness
3. RASWIN
4. BioPython
5. Histogram
6. ANOVA
7. Phylogenetic tree
8. Global & Local alignments
9. Variance
10. HGP
11. DrugBank
12. ProFunc

**B. Write short notes any FIVE of the following 6X5=30**

13. Correlation and Regression
14. Nucleotide sequence databases
15. Probability
16. Experimental design
17. Hypothesis testing
18. Computer Networking
19. Genomics

**C. Give a detailed account of any TWO of the following 10X2=20**

20. Explain types and techniques of sampling.
21. Give an account computer aided drug designing
22. The effect of nutrients on the yield of Tomato was studied and data is given below.  
Calculate mean, median and mode.

No. of fruits/plant	2	4	6	8	10	12	14	16	18
No. of plants	122	129	178	220	278	133	110	90	45

**BO7418\_A\_20**