



Register Number:

DATE: 25-10-2019

ST. JOSEPH'S COLLEGE (AUTONOMOUS), BENGALURU
END SEMESTER EXAMINATION- OCTOBER 2019
B.Sc.-V SEMESTER

BO 5215- Molecular Biology and Plant Biotechnology

Time- 2^{1/2} hrs

Max. Marks: 70

This paper contains **ONE** printed page and **THREE** parts
Draw labeled diagrams wherever necessary with examples.

A. Answer any TEN of the following

10X2= 20

1. Conservative replication
2. Non genetic RNA
3. Ribozymes
4. Cos sites
5. *dfr* gene
6. Annealing
7. Nitrogen fixation in non- legumes
8. Molecular farming
9. Polygalacturonase
10. T-DNA
11. IPR
12. Muton and Recon

B. Write short notes on any FIVE of the following

5X6=30

13. Translation in Eukaryotes
14. Genetic code and its characteristics
15. Sanger's DNA sequencing
16. pUC18: structure and selection mechanism
17. Edible vaccines
18. Terminator gene technology
19. Three strategies for production of salinity resistant plants by genetic engineering

C. Give a comprehensive account of any TWO of the following

2X10=20

20. DNA replication in Eukaryotes
21. Agrobacterium mediated biotransformation
22. Bt cotton: production and drawbacks