QP CODE: 19103031

19103031

Reg No : .....

Name : .....

B.Sc.DEGREE (CBCS) EXAMINATION, NOVEMBER 2019

First Semester

Core Course - BO1CRT01 - METHODOLOGY OF SCIENCE & AN INTRODUCTION TO BOTANY

(Common to B.Sc Botany and Biotechnology Model III Double Main, B.Sc Botany Model I, B.Sc Botany Model II Environmental Monitoring And Management, B.Sc Botany Model II Food Microbiology, B.Sc Botany Model II Horticulture and Nursery Management, B.Sc Botany Model II Plant Biotechnology)

2017 Admission Onwards

F432BF72

Time: 3 Hours Maximum Marks :60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. Define scientific method.
2. What do you mean by review of literature?
3. What is independent variable?
4. Define Treatment.
5. What is sympatric speciation?
6. Which form, Kingdom Animalia stores food?
7. Who created three domian classification?
8. What are thallophytes?
9. Which plant group is known as flowering plants.
10. What is the combination of Farmer's fluid?
11. What is vasculum?
12. What is mounting? Give an example for a temporary mounting medium?

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. With the help of an example differentiate inductive reasoning and deductive reasoning.

14. Examine the need for Ethics in Science.

15. Differentiate convergent and divergent evolution.

16. What are the major postulates of Lamarckism? List out any two drawbacks of this theory.

17. "Eichlers system of classificiation is considered as first phylogenetic classification". Substantiate.

18. How is archaea different from eubacteria?

19. Describe nutrition in fungi.

20. Explain in detail the salient features of Pteridophytes.

21. List the steps involved in preparation of permanent slides for light microscopy.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. Design an experiment on the topic application of growth hormones and internodal growth of plants.

23. Explain Miller and Urey experiment.

24. Explain the life cycle and alternation of Generation in Gymnosperms.

25. How are stains classified? What are the steps involved in staining plant tissues?

(2×10=20)