QP CODE: 19101032

19101032

Reg No : .....

Name : .....

B.Sc.DEGREE (CBCS) EXAMINATION, DECEMBER 2018

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 (Reappearance)

FFAC8C2D

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

Part A

Answer any **ten** questions.

Each question carries **1** mark.

1. Which is the first step in starting a research process?
2. What do you mean by review of literature?
3. What is dependent variable?
4. What is Controlled Experiment?
5. What are fossils?
6. Name the division of algae in Eichler's classification.
7. What are holocarpic fungi?
8. What is megasporophyll?
9. What are Monocarpic plants?
10. What is Carnoy’s fluid?
11. What is herbarium?
12. Mention the use of mounting medium?

(10×1=10)

Part B

Answer any **six** questions.

Each question carries **5** marks.

13. What are the features of a good hypothesis? How hypothesis is tested?

14. Give an account on ethics in science.

15. Give an account on theories on origin of life.

16. What are the major postulates of mutation theory?

17. Explain the Five Kingdom classification by Whittaker.

18. What are the characteristic features of the domain archaea?

19. Describe reproduction in algae.

20. Compare the plant body of Bryophytes and Pteridophytes.

21. What is staining? Explain the preparation of any two commonly used stains?

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **10** marks.

22. Explain various steps in experimentation.

23. Explain the major postulates of Neo Darwinism? How is it different from Darwinism?

24. Describe two Kingdom classification. List out merits and demerits of two Kingdom classification.

25. Explain the different parts of a compound microscope and its significance in image formation.

(2×10=20)