



QP CODE: 18103631



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)

2018 Admission only

A52D8D6E

Maximum Marks: 60

Time: 3 Hours

Part A

Answer any **ten** questions.

Each question carries **1** mark.

1. What is alternate hypothesis?
2. Define Scientific literature.
3. Define variable.
4. Define Control.
5. What is mutation theory?
6. What are halophiles?
7. What is an ascocarp?
8. Which Plant group is known as 'Amphibians of Plant Kingdom'?
9. What is triple fusion?
10. What do you mean by resolving power of a microscope?
11. What is the use of FAA in plant microtechnique?
12. Give an example for a permanent mounting medium?

(10×1=10)

Part B

Answer any **six** questions.

Each question carries **5** marks.

13. How does a scientific law differ from a theory?
14. With the help of a flow chart briefly explain the steps involved in experimentation.





15. Describe palaeontological and embryological evidences of evolution.
16. What is speciation? Differentiate between allopatric and sympatric speciation.
17. Give a brief account of phylogenetic classification as given by August Wilhelm Eichler
18. Describe the characteristics of the Kingdom Monera.
19. Write notes on ecological roles of algae.
20. Describe the general characters of Gymosperms.
21. What is the purpose of crystal violet? Give a note on its preparation?

(6×5=30)

Part C

Answer any **two** questions.

Each question carries **10** marks.

22. Describe different steps of experimentation involved in Mendel's experiment.
23. Give an account on experimental evidences supporting organic evolution.
24. Enumerate the characteristic features of six Kingdoms of life.
25. Describe the steps involved in preparation of permanent slides for light microscopy.

(2×10=20)

