

TB 141020

Reg. No.....

Name:.....

B.Sc. DEGREE (C.B.C.S.S) EXAMINATION, NOVEMBER 2014

B.Sc. BOTANY – FIRST SEMESTER

CORE COURSE

**BOT1MPIP – METHODOLOGY AND PERSPECTIVES OF SCIENCE AND AN
INTRODUCTION TO THE WORLD OF PLANT DIVERSITY**

Time: Three Hours

Maximum: 60 Marks

Part A -Short Answer Questions

Answer all questions

Each question carries 1 mark

1. Why green plants are called primary producers?
2. Which is the controlling centre of a cell?
3. Expand DNA.
4. Name a unicellular alga.
5. List the basic units of measurements
6. What is a patent?
7. Define variables of experiments.
8. What are the principles of experimentation?

(8 x1=8marks)

Part B (Brief Answer Questions)

Answer any six questions

Each question carries 2 marks

9. Explain the need of control in experimentation.
10. Name a medicine obtained from plants.
11. What is meant by hypha?
12. What are the advantages and disadvantages of scientific method of experimentation?
13. Which are the components of lichens?
14. What is the importance of searching literature in experimentation?
15. Discuss the contributions of Louis Pasteur.
16. What are the ethical issues in science research?
17. What is pomology?
18. Define heterotrophs. Give an example?

(6 x 2=12 marks)

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Part C (Problems/Derivations)

Answer any four questions

Each question carries 4 marks

19. Differentiate between dicotyledons and monocotyledons?
20. Give an account of pigments in algae
21. Explain thallus organization in fungi
22. What is meant by testing hypothesis?
23. Outline the essential steps involved in preparing research design
24. What are the methods of analysis of data?

(4 x 4 = 16 marks)

Part D (Long answer/ Problem questions)

Answer any two questions

Each question carries 12 marks

25. Explain the different types of life cycle patterns in Pteridophytes with the help of schematic sketches.
26. Give an account of different types of bacteria with the help of diagrams.
27. Explain with an example the stages of experiment from a question to an experimental design.
28. Write an essay on research hypothesis.

(2 x 12 = 24 marks)