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Name.....

Reg. No.....

**FOURTH SEMESTER (CBCSS—UG) DEGREE EXAMINATION  
APRIL 2024**

Botany

BOT 4C 04—PLANT PHYSIOLOGY, ECOLOGY AND GENETICS

(2019 Admission onwards)

Time : Two Hours

Maximum : 60 Marks

**Section A***Answer all questions.**Each question carries 2 marks.**Ceiling : 20 Marks.*

1. Define Imbibition.
2. What is meant by transpiration ?
3. Explain cohesion tension theory.
4. What is Osmosis ?
5. What is Photorespiration ?
6. Define Growth.
7. What is Dormancy ?
8. What is Vernalization ?
9. Define Senescence.
10. What is Succession ?
11. What is meant by test cross ?
12. Differentiate heredity and variation.

Turn over

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**Section B**

*Answer all questions.*

*Each question carries 5 marks.*

*Ceiling : 30 Marks.*

13. Write an account on stomatal movement.
14. Explain ascent of sap.
15. Write an account on light reaction.
16. Explain various factors influencing photosynthesis.
17. Write an account on ecological adaptation of hydrophyte.
18. Write a note on Mendel's experiment.
19. Explain complementary genes.

**Section C**

*Answer any one question.*

*The question carries 10 marks.*

20. Explain Dark reaction in plants and write the factors affecting photosynthesis.
21. Write an account on ecological adaptations of Xerophyte, Halophyte, Epiphyte and parasite.

(1 × 10 = 10 marks)