

**D 53641**

(Pages : 2)

Name.....

Reg. No.....

**FIRST SEMESTER (CBCSS—UG) DEGREE EXAMINATION  
NOVEMBER 2023**

Botany

BOT 1B 01—ANGIOSPERM ANATOMY, REPRODUCTIVE BOTANY AND PALYNOLOGY

(2019—2023 Admissions)

Time : Two Hours

Maximum : 60 Marks

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

1. What is Cystolyth ?
2. Define apical cell theory.
3. Differentiate schizogenous and lysogenous ducts.
4. Describe collateral vascular bundle.
5. What is meant by lenticel ?
6. Differentiate articulated and non-articulate latificiferers.
7. Define raphides.
8. Write a note a starch grain.
9. What is double fertilization.
10. Describe embryosac.
11. What is meant by pollen allergy ?
12. Write a note on barriers of fertilization.

**Turn over**

**Section B**

*Answer all questions.  
Each question carries 5 marks.  
Ceiling : 30 Marks.*

13. Explain meristematic tissues.
14. Write a note on vascular bundle.
15. Write an account on reserve food materials.
16. Write an account on secretory tissues.
17. Explain pollen morphology.
18. Write an account on microsporogenesis.
19. Describe dicot embryo in *Cypselia*.

**Section C**

*Answer any one question  
The question carries 10 marks.*

20. Write an account on structure and functions of complex tissues.
21. Give a comparative account on different types of embryo sac.

(1 × 10 = 10 marks)