



21100903

QP CODE: 21100903

Reg No :

Name :

B.Sc DEGREE (CBCS) EXAMINATION, MARCH 2021

Fourth Semester

B.Sc Zoology Model I

Complementary Course - BO4CMT04 - BOTANY - ANATOMY AND APPLIED BOTANY

2017 Admission onwards

8A0AFD9C

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. What are the major components of plant cell wall?
2. What is a desmotubule?
3. What is brachy sclereid?
4. Mention the components of xylem.
5. What is a radial vascular bundle?
6. Differentiate between hard wood and soft wood.
7. What is the most important adaptation seen in hydrophytes?
8. Who is the father of green revolution?
9. What is meant by pureline section?
10. Give an example for intervarietal hybridisation.
11. What are clones?
12. Write down the significance of autoclave

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*





13. Explain non-living cell inclusion.
14. Distinguish between meristematic and permanent tissues.
15. Define primary meristems with its components.
16. Differentiate Primary structure of dicot stem and Monocot stem.
17. Differentiate Dicot and monocot leaf.
18. Give an account on the ecological adaptations of xerophytes.
19. What is the role of cambium in budding and grafting?
20. Write a short note on somatic embryogenesis
21. Describe the applications of plant tissue culture.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **10** marks.*

22. With suitable examples, write an essay on secretory tissues
23. Explain the secondary growth in dicot stem with the help of diagram.
24. With the help of labelled diagram describe anomalous secondary growth in Bignonia.
25. Give an account on the objectives of plant breeding.

(2×10=20)

