

2B1N20015

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Reg. No:.....

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE
First Semester B.Sc Zoology Degree Examination, November 2020
BBT1C01 –Angiosperm Anatomy & Micro technique
(2020 Admission onwards)

Time: 2 hours

Max. Marks: 60

SECTION A

(Answer all questions, each question carries 2 marks. Ceiling: 20 Marks)

1. Differentiate diffuse porous and ring porous wood
2. What are the differences between protoxylem and metaxylem
3. How you will differentiate tracheids from vessels
4. What are the functions of collenchyma
5. What are companion cells? What is its function ?
6. What is bark ?
7. What is meant by the numerical aperture of a microscope? What is its importance?
8. What is dehydration? Name a dehydrating agent
9. What is canada balsam? What is its use?
10. What is condenser lens system?
11. Describe the vascular system in dicot leaf
12. What are vascular rays ? What is its function?

SECTION B

(Answer all questions, each question carries 5 marks. Ceiling: 30 Marks)

13. Explain the formation of growth rings
14. Explain different types of secretory tissues in plants
15. Explain the working of an electron microscope
16. What is meant by killing and fixation? Explain the composition of any two killing and fixing fluids
17. Explain the differences between monocot and dicot stem
18. Explain different types of vascular bundles
19. What are stains? Explain different types of stains and their use

SECTION C

(Answer any one question, each question carries 10 marks. 1x10 = 10 Marks)

20. Explain the secondary growth in Tinospora root with suitable diagrams.
21. Explain intra stelar and extra stelar thickening in a dicot stem with diagrams

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First Semester B.Sc Botany Degree Examination, November 2020
BBT1B01 –Angiosperm Anatomy, Reproductive Botany & Palynology
(2020 Admission onwards)

Time: 2 hours

Max. Marks: 60

SECTION A

(Answer all questions, each question carries 2 marks. Ceiling: 20 Marks)

1. What are cystoliths?
2. Write four important features of vascular bundle of a monocot stem.
3. Give an account of laticifers.
4. What are passage cells? What is its significance?
5. Differentiate cleistogamy with that of homogamy.
6. Distinguish between sapwood and heart wood.
7. What is endothecium?
8. What are bulliform cells? What is its function?
9. What is syngamy?
10. Name any four cell types derived from fusiform initials.
11. Give an account of structure of lenticel.
12. Write the names of two diseases caused due to pollen allergy.

SECTION B

(Answer all questions, each question carries 5 marks. Ceiling: 30 Marks)

13. Give an account of ultrastructure of cell wall.
14. Describe the internal structure of monocot stem.
15. Describe the tetrasporic type embryo sac. Compare it with monosporic type.
16. Explain the process of secondary growth in dicot root.
17. Describe the structure of a monocot embryo.
18. Give an account of various theories of organization of apical meristem.
19. With sketches give a brief account of different types of ovules.

SECTION C

(Answer any one question, each question carries 10 marks. 1x10 = 10 Marks)

20. With the help of a labeled sketch describe the anomalous secondary growth in *Boerhaavia* stem.
21. Give a detailed account of Megasporogenesis with illustrations.