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(Pages : 1)

Reg. No:.....

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

First Semester B.Sc Zoology Degree Examination, November 2019

BBT1C01 –Angiosperm Anatomy & Micro technique

(2019 Admission onwards)

Time: 2 hours

Max. Marks: 60

SECTION A

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

1. What are hydathodes? What is its function?
2. What is FAA ? Write its use and composition
3. Explain Tunica corpus theory
4. What is meant by resolving power of a microscope
5. What are concentric bundles? Give examples
6. What is meant by sap wood and heart wood
7. What are lenticels ?
8. What is a lateral meristem? Write an example.
9. Explain the structure of a bicollateral vascular bundle
10. What are growth rings? What is its importance?
11. What is acetocarmine? Write its preparation and use
12. What are bulliform cells ? What is its function?

SECTION B

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

13. Explain different theories for the organization of shoot apex and root apex
14. Explain different types of sclerenchyma and its function
15. Explain the difference between light microscope and electron microscope.
16. What is a microtome? Explain the working of a rotary microtome
17. Explain the structure of a dicot leaf with a labelled diagram
18. Explain the formation of periderm
19. Explain the structure of dicot stem with suitable diagram

SECTION C

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

20. Explain the anomalous secondary growth in Boerhaavia with suitable diagrams
21. Explain the complex tissues in plants with diagrams

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First Semester B.Sc Botany Degree Examination, November 2019

BBT1B01 –Angiosperm Anatomy, Reproductive Botany & Palynology

(2019 Admission onwards)

Time: 2 hours

Max. Marks: 60

SECTION A

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

1. Distinguish between fusiform initial and ray initials.
2. What are raphides?
3. What is amphivasal vascular bundle? Write one example.
4. What are stone cells?
5. Describe triple fusion.
6. Discuss the anomalous cambial activity in *Bignonia* stem.
7. What is tapetum?
8. What are annual rings? What is its significance?
9. Classify meristems based on their position.
10. Differentiate mesogamy and chalazogamy.
11. Give an account of mesophyll tissue of dicot leaf.
12. What is caruncle?

SECTION B

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

13. Explain the process of formation of periderm in plants.
14. Give an account various kinds of secretory tissues.
15. Give an account of various economic aspects of palynology.
16. Distinguish between the apical organization of dicot and monocot root.
17. Describe the structure of a mature anther.
18. Explain the structure and function of phloem.
19. With labelled diagram describe the structure of embryo sac.

SECTION C

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

20. With the help of labeled sketches describe the process of secondary growth in dicot stem.
21. Give an account of different categories of endosperms.