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B1N17240

(Pages : 2)

Reg. No:.....

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE
First Semester B.Sc Degree Examination, November 2017
BBOT1B01 – Core Course I (Angiosperm Anatomy)
(2017 Admission onwards)

Max. Time: 3 hours

Max. Marks: 80

Part A

I. Answer all questions

1. proposed Tunica corpus theory
2. Openings seen in the cell wall are known as.....
3. The concentric type vascular bundle of Dracaena is
4.is an example for lateral meristem
5. Needle shaped crystals of calcium oxalate is known as
6. is a dead mechanical simple permanent tissue.
7. Guard cells of monocot leaves are
8. Hemispherical mass of inactive cells present in the root apical meristem is known as
9. meristem is responsible for internodal elongation in Bamboo.
10. The wall thickening material of collenchymas is

(10x1=10 marks)

Part B

II. Answer all questions

11. Distinguish between simple and bordered pits.
12. What is apposition?
13. Comment on aleurone grains.
14. Distinguish between dicot and monocot root.
15. Draw a label a bicollateral vascular bundle.
16. Distinguish between trilacunar and multilacunar nodal structure.
17. Where do you find grit cells? Comment on it.
18. What are growth rings?
19. Write notes on callose.
20. What is casparian thickening? Mention its function.

(10 x 2=20 marks)

Part C

III. Answer any six questions

21. Define meristem. How will you classify meristem?
22. What are excretory substances? Give an account on nitrogenous waste materials.
23. Write a brief description on parenchyma.
24. Draw and label an isobilateral leaf.
25. Distinguish between dicot and monocot stem.
26. What is periderm? How is it formed?
27. Give an illustration on root stem transition.
28. Explain the anomalous secondary structure of *Dracaena*.

(6 x 5=30 marks)

Part D

IV. Answer any two of the following

29. Write an account on vascular tissues.
30. With the help of cellular diagram explain anomalous secondary growth in *Bignonia*.
31. Give a detailed account on secretory tissues.

(2 x 10 = 20 Marks)

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(Pages : 2)

Reg. No:.....

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE
First Semester B.Sc Degree Examination, November 2017
BBOT1C01 – Angiosperm Anatomy & Micro technique
(2017 Admission onwards)

Max. Time: 3 hours

Max. Marks : 64

Part A

I. Answer all questions

1. proposed tunica corpus theory.
2. is an example for a primary meristem.
3. is a living mechanical tissue.
4.cell is always seen associated with sieve tube.
5. Meristem responsible for extra stelar secondary growth is known as
6. The hypodermis of a monocot stem is made up of
7. Characteristic vascular bundles of Cucurbitaceae family are
8. Age determination of trees by counting their growth rings is called.....
9. The first functional electron microscope was made by
10. is an adhesive used for permanent mounting.

(10x1=10 marks)

Part B

II. Answer any seven questions

11. What is quiescent centre? Mention its functions.
12. Comment on stone cells.
13. Distinguish between a tyloses and tylosoides.
14. List out the functions of pericycle.
15. What are bulliform cells? Mention its functions.
16. Distinguish between storied and non-storied cambium
17. Define amphivassal type of vascular bundle with an example.
18. What do you mean by resolving power of a microscope? How will you determine it?
19. What is FAA? Give its composition.
20. What is clearing? Name any two clearing reagents.

(7 x 2=14 marks)

Part C

III. Answer any six questions

21. Give an account on parenchyma.
22. Define meristem. Give an account on organization of root apex based on Histogen theory.
23. Describe the internal structure of dorsiventral leaf.
24. Give a brief account on phloem
25. Discuss stelar secondary growth in dicot root.
26. Distinguish between heart wood and sap wood.
27. Give a brief description on external secretory structures.
28. What are lenticels? Explain lenticel formation.

(6 x 4=24 marks)

Part D

IV. Answer any two of the following

29. With the help of neat labeled sketches give detailed account on Xylem.
30. With the help of cellular diagram explain anomalous secondary growth in Boerhaavia
31. Give a detailed account on serial sectioning by paraffin method.

(2 x 8=16marks)