

B1N18014

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Reg. No:.....

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE
First Semester B.Sc Degree Examination, November 2018
BBOT1B01 – Angiosperm Anatomy
(2016 Admission onwards)

Max. Time: 3 hours

Max. Marks: 80

Part A

I. Answer all questions

1. Non porous wood of is technically known as soft wood.
2. The barrel shaped body that appears in the equator of the cell during cytokinesis is known as
3. The protein part of aleurone grain is called
4.proposed Korper- kappe theory.
5. is a Gymnosperm with xylem vessels.
6. The hypodermis of a dicot stem is made up of
7. Balloon-like structures that grow out from parenchyma cells into the lumen of xylem vessels are called
8. In Citrus the oil glands aretype
9. Concentric vascular bundles with xylem in the centre are known as
10. Lateral roots originate from the

(10x1=10 marks)

Part B

II. Answer all questions

11. Draw and label a bordered pit.
12. Name the resinous product obtained from *Abies balsamia*
13. Distinguish between apposition and intussusception
14. Comment on nodal anatomy.
15. Distinguish between articulated and non articulated laticifers.
16. What is lignification? What are the common patterns of lignifications in tracheary elements?
17. What is casparian thickening? Mention its functions.
18. Discuss lenticels formation.
19. Distinguish between fusiform and ray initials.
20. Distinguish between heart wood and sap wood

(10 x 2=20 marks)

Part C

III. Answer any six questions

21. Draw and label an isobilateral leaf?
22. Define meristem. Mention different classifications of meristem.
23. With the help of diagrams describe different types of stomata.
24. Give a brief account on phloem
25. Discuss stelar secondary growth in dicot root.
26. Give an illustration on non-nitrogenous waste materials.
27. Give a brief description on external secretory structures.
28. Explain the anomalous secondary structure of Bignonia.

(6 x 5=30 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 simple permanent tissues.

(2 x 10 = 20 Marks)

B1N18015

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Reg. No:.....

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE
First Semester B.Sc Degree Examination, November 2018
BBOT1C01 – Angiosperm Anatomy & Microtechnique
(2016 Admission onwards)

Max. Time: 3 hours

Max. Marks : 64

Part A

I. Answer all questions

1. are slender and hair-like sclereids.
2. is a pteridophyte with vessel.
3. is a living thin walled tissue.
4. Specialized cells seen in association with the leaf veins of leguminous plants are known as
5. In Eucalyptus oil glands are type.
6. Gymnosperm wood is technically known as
7. constitutes all the living tissues and the dead cells outside the vascular cambium.
8. meristem is responsible for growth in thickness.
9. Trade name of the aqueous solution of 40% formaldehyde is
10. is an example for a fixative.

(10x1=10 marks)

Part B

II. Answer any seven questions

11. Draw and label T S of lenticel.
12. Give the structure of digestive glands of Nepenthes?
13. Comment on growth rings.
14. Distinguish between latex cells and latex vessels.
15. Distinguish between fusiform and ray initials.
16. What is quiescent centre? Mention its function
17. Comment on duramen.
18. Name a stain used for cytological preparations. How will you prepare it?
19. What is numerical aperture? How is it useful in microscopy?
20. What is dehydration? Name any two reagents used for it.

(7 x 2=14 marks)

Part C

III. Answer any six questions

21. Give an account on different types of vascular bundles.
22. Using an appropriate theory give an account on organization of shoot apex.
23. Describe the internal structure of isobilateral leaf.
24. Give a brief account on tracheary elements.
25. Briefly describe collenchyma
26. Distinguish between dicot and monocot stem.
27. What is stele? Describe the stele of monocot root.
28. Write a critical account on epidermal tissue system.

(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 phloem.
30. Give an illustration on normal secondary growth in dicot root.
31. Give a detailed account on Electron microscopy.

(2 x 8=16marks)