

**Shivaji University, Kolhapur**

**Question Bank for Mar 2022 (Summer) Examination**

**Subject Code: 78910 Subject Name: Botany Paper VII**

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**Que 1 Rewrite the following sentences choosing the correct alternative.**

1. Root part of the plant is derived from\_\_\_\_\_
  - a. plumule
  - b. radical
  - c. endosperm
  - d. scutellum
  
2. The term protoderm for dermatogens was given by \_\_\_\_\_
  - a. Schmidt
  - b. Hanstein
  - c. Hofmeister
  - d. Haberlandt
  
3. The apical cell theory was proposed by \_\_\_\_\_
  - a. Schmidt
  - b. Hanstein
  - c. Hofmeister
  - d. Guttenberg
  
4. Closed vascular bundle in monocot stem lacks\_\_\_\_\_
  - a. xylem
  - b. phloem
  - c. cambium
  - d. water cavities
  
5. \_\_\_\_\_ wood has no vessels in xylem tissue
  - a. Teak
  - b. Mango
  - c. Palm
  - d. Pinus
  
6. The radial vascular bundle is the characteristic of \_\_\_\_\_
  - a. stem
  - b. leaf
  - c. floral bud
  - d. root
  
7. The leptocentric type of vascular bundle, found in \_\_\_\_\_
  - a. Fern rachis
  - b. Dracaena stem
  - c. Sunflower root
  - d. Maize stem

8. The lenticels are involved in \_\_\_\_\_
- Storage of food
  - Exchange of gaseous
  - Photosynthesis
  - Secretion of resin
9. Adaptive abnormal secondary growth is found in \_\_\_\_\_ stem
- Yucca
  - Sunflower
  - Dracaena
  - Bignonia
10. Multiple epidermis is found in \_\_\_\_\_
- Sugarcane leaf
  - Nerium leaf
  - Maize leaf
  - Jowar leaf
11. Latex vessels occur in \_\_\_\_\_
- Maize
  - Citrus
  - Water lily
  - Hevea
12. Fragrance to flower is due to \_\_\_\_\_
- digestive glands
  - osmophores
  - laticifers
  - resin ducts
13. Dendroid or tree like hairs found in \_\_\_\_\_
- Dombeya
  - Olea
  - Viola
  - Mimosa
14. The apical meristem is responsible for \_\_\_\_\_
- Increasing height
  - Increasing thickness
  - Formation of phloem tissue
  - Formation of xylem tissue
15. The Tunica Corpus theory was proposed by \_\_\_\_\_
- Hofmeister
  - Hanstein
  - Schmidt
  - Guttenberg

16. The vascular cambium and cork cambium are the examples of \_\_\_\_\_
- Intercalary meristem
  - Lateral meristem
  - Apical meristem
  - Primary meristem
17. The permanent tissue performs the function of storage of food material is \_\_\_\_\_
- Parenchyma
  - Sclerenchyma
  - Collenchyma
  - Xylem
18. Outer layer of periderm is called as \_\_\_\_\_
- Phellem
  - Phellogen
  - Phelloderm
  - Cork cambium
19. Dracaena belongs to family \_\_\_\_\_
- Dracaenaceae
  - Apiaceae
  - Liliaceae
  - Bignoniaceae
20. Water secreting glands in plants are \_\_\_\_\_
- Nectaries
  - Digestive glands
  - Hydathodes
  - osmophores
21. Insectivorous plants have \_\_\_\_\_
- digestive glands
  - osmophores
  - laticifers
  - resin ducts
22. The type of vascular bundle in Dracaena is \_\_\_\_\_
- Amphicribile
  - Amphivasal
  - Conjoint collateral
  - Open
23. The portion of the plumule between the cotyledons and first photo-synthetic leaf is called as \_\_\_\_\_
- epicotyl
  - hypocotyl
  - amphicotyl
  - plumicotyl

24. Central zone of Histogen theory in root apex named as \_\_\_\_\_
- dermatogen
  - periblem
  - plerome
  - protoderm
25. Chemical constitution of sclerenchyma cell wall is \_\_\_\_\_
- lignin
  - cellulose
  - pectin
  - glycogen
- 26 \_\_\_\_\_ is only living element in xylem tissue
- Vessel
  - Tracheid
  - Xylem sclerenchyma
  - Xylem parenchyma
27. Conjoint collateral open type of vascular bundle is found in \_\_\_\_\_
- maize stem
  - sunflower stem
  - Dracaena stem
  - sugarcane stem
28. The habit of Bignonia is \_\_\_\_\_
- herb
  - shrub
  - climber
  - tree
29. The cuticle is absent on the leaves of \_\_\_\_\_
- free floating hydrophytes
  - rooted-floating hydrophytes
  - amphibious hydrophytes
  - submerged hydrophytes
30. Stinging hairs are found on all vegetative parts of \_\_\_\_\_
- Ocimum
  - Maize
  - Urtica
  - Cucumis
31. The portion of plumule below cotyledons, up to root boundary, is called as \_\_\_\_\_
- epicotyl
  - hypocotyl
  - amphicotyl
  - plumicotyl

32. The Histogen theory was proposed by \_\_\_\_\_
- a. Hofmeister
  - b. Nageli
  - c. Schmidt
  - d. Hanstein
33. The permanent tissue performs the function conduction of food is \_\_\_\_\_
- a. phloem
  - b. xylem
  - c. collenchyma
  - d. parenchyma
34. The outer most uniseriate layer of histogen theory is called as \_\_\_\_\_
- a. periblem
  - b. plerome
  - c. dermatogen
  - d. pericycle
35. In aquatic plants the parenchyma is mostly modified into \_\_\_\_\_
- a. chlorenchyma
  - b. collenchyma
  - c. idioblast
  - d. aerenchyma
36. The adventitious root system is the characteristic feature of \_\_\_\_\_
- a. Dicotyledons
  - b. Gymnosperms
  - c. Angiosperms
  - d. Monocotyledons
37. Non-adaptive abnormal secondary growth is found in \_\_\_\_\_ stem
- a. Bignonia
  - b. Dracaena
  - c. Sunflower
  - d. Aloe
38. Meristematic middle layer of periderm is \_\_\_\_\_
- a. Phellem
  - b. Phellogen
  - c. Phelloderm
  - d. Epiblema
39. During normal secondary growth in dicot stem, formation of multilayered non-vascular tissue outside the stele is called as \_\_\_\_\_
- a. Periderm
  - b. Protoderm
  - c. Pith
  - d. Pericycle

40. Articulated latex vessels are found in \_\_\_\_\_
- Nerium
  - Ficus
  - Calatropis
  - Hevea
41. Drosera (Sundew), possesses \_\_\_\_\_
- Nectaries
  - Digestive glands
  - Hydathodes
  - Oil glands
42. Fragrance to flower is due to \_\_\_\_\_
- digestive glands
  - laticifers
  - resin ducts
  - osmophores
43. Outermost protective layer of primary root is known as \_\_\_\_\_
- endodermis
  - epiblema
  - pericycle
  - hypodermis
44. Bulliform cells are found in the epidermis of \_\_\_\_\_
- Maize leaf
  - Mango leaf
  - Ficus leaf
  - Papaya leaf
45. Latex collected from Hevea plant commercially used for preparation of \_\_\_\_\_
- paints
  - rubber
  - cleaners
  - skin lotions
46. The \_\_\_\_\_ is chief water conducting element in Gymnosperm
- Vessel
  - Xylem parenchyma
  - Xylem fiber
  - Tracheid
47. Hard bast in plants mostly having \_\_\_\_\_ tissue
- parenchyma
  - collenchyma
  - aerenchyma
  - sclerenchyma

48. Conjoint Bicollateral vascular bundles occur in the stems of members of natural order \_\_\_\_\_
- Fabaceae
  - Liliaceae
  - Cucurbitaceae
  - Asteraceae
49. Central vascular cylinder of root and stem axis with or without pith is called as \_\_\_\_\_
- Stele
  - Ground tissue
  - Medulla
  - Hard bast
50. \_\_\_\_\_ is not a part of epidermal tissue system
- Trichome
  - Guard cell
  - Root hair
  - Companion cell

## Que 2. Long answer type questions

- 1) What are meristem? How they are classified? Describe the types of meristem based on their position.
- 2) Describe the Tunica-carpus theory for structural development and add a note on its significance.
- 3) Describe in brief internal organization of higher plant body.
- 4) Give brief account of types of Vascular bundles with suitable examples.
- 5) What is secondary growth? Give an illustrative account of normal secondary growth in dicot stem.
- 6) Describe primary structures of Dicot and Monocot stem.
- 7) What is anomalous secondary growth? Give an illustrative account of anomalous secondary growth in Bignonia stem.
- 8) What is anomalous secondary growth? Give an illustrative account of anomalous secondary growth in Dracaena stem.
- 9) Describe in brief the Secretory tissue system.
- 10) Describe in brief the Epidermal tissue system.

### **Que 3 . Short notes**

- 1) Plant organs
- 2) Histogen theory of structural development
- 3) Characteristics of Meristem tissue.
- 4) Xylem
- 5) Phloem
- 6) Parenchyma
- 7) Apical cell theory
- 8) Periderm
- 9) Lenticel
- 10) T. S. of Monocot root
- 11) Trichome
- 12) Stomata
- 13) Mechanical tissues in higher plants
- 14) Laticifers
- 15) Function of epidermal tissue system
- 16) Collenchyma
- 17) Soot apical meristem
- 18) Tunic- corpus theory
- 19) Nectaries
- 20) Classification of meristem based on their position
- 21) Concentric vascular bundle
- 22) Primary structure of Dicotyledonous root