UNIT 2: STRUCTURAL ORGANIZATION IN PLANTS AND ANIMALS

CHAPTER 5: MORPHOLOGY OF FLOWERING PLANTS

ONE MARK QUESTIONS:

- 1. Define morphology.(K)
- 2. What is tap root system?(K)
- 3. What is fibrous root system?(K)
- 4. What are adventitious roots?(K)
- 5. Define venation.(K)
- 6. Define inflorescence.(K)
- 7. What is a flower?(K)
- 8. Define aestivation in angiosperms.(K)
- 9. Define placentation.(K)
- 10. What is a fruit?(K)
- 11. What is primary root?(K)
- 12. Mention the function of root hairs. (K)
- 13. In which group of plants primary root is short lived and replaced by large number of roots.(U)
- 14. In which region of the root cells are small, thin walled with dense protoplasm.(U)
- 15. What is a node?(K)
- 16. What are internodes?(K)
- 17. What are stem tendrils? (K)
- 18. Mention the function of tendrils.(A)
- 19. Pneumatophores are found only in swampy areas. Why? (U)
- 20. Give an example of the stem which performs photosynthesis.(A)
- 21. Define leaf. (K)
- 22. What do you call a swollen leaf base? (U)
- 23. What is phyllotaxy? (k)
- 24. Which part of the plant gets modified in Venus fly trap? (K)
- 25. Name the plant from which Colchicine is extracted. (S)
- 26. What is simple leaf? (K)
- 27. What is compound leaf?(K)
- 28. Define lamina or leaf blade.(K)
- 29. Which type of phyllotaxy is present in Calotropis? (U)
- 30. In Australian acacia which part is modified for synthesis of food.(U)
- 31. Define hypogynous flower.(K)
- 32. Define epigynous flower.(K)
- 33. Define perigynous flower.(K)
- 34. What is a staminode?(K)
- 35. Name the condition when stamens are attached to the petals.(U)
- 36. Which type of phyllotaxy is present in *Alstonia*?(U)
- 37. Define gamopetalous.(K)
- 38. Define polypetalous. (K)

- 39. Give an example for epiphyllous flower. (K)
- 40. What is parthenocarpic fruit?(K)
- 41. What is Coleoptile? (K)
- 42. Define Coleorhizae. (K)
- 43. What is apocarpous condition? (K)
- 44. What is syncarpous condition? (K)
- 45. Define bracteate.(K)
- 46. Define ebracteate.(K)
- 47. What leads to formation of primary root?(U)
- 48. Which region of root produces root hairs? (k)
- 49. Give an example for modified adventitious root which stores food.(U)
- 50. What are pneumatophores? (K)
- 51. Name the plant which produces pneumatophores. (K)
- 52. Define actinomorphic condition.(K)
- 53. Name the family which has perianth as floral whorl.(K)
- 54. Which is the potato family?(K)
- 55. Name the thimble like structure which covers root apex.(K)
- 56. Which is the most important vegetative organ for photosynthesis?(K)
- 57. Define zygomorphic flower.(K)
- 58. Define epiphyllous. (K)
- 59. Define valvate aestvation. (K)
- 60. Define imbricate aestivation.(K)
- 61. Define twisted aestivation. (K)
- 62. Define vexillary aestivation.(K)
- 63. What is aleurone layer?(K)
- 64. What do you call the cotyledon of a monocot seed? (K)
- 65. Name the layer which separates endosperm and embryo in monocots.(K)

TWO MARKS QUESTIONS:

- 66. What is modification of root? Give an example of prop roots and stilt roots. (K)
- 67. Mention the characteristic features of stem.(K)
- 68. Draw a neat labeled showing parts of a leaf.(S)
- 69. Write any four functions of stem. (K)
- 70. Mention the functions of veins in leaves. (K)
- 71. Differentiate a simple leaf from compound leaf. (U)
- 72. List the economically important plants of family Solanaceae (K)
- 73. List the economically important plants of family Fabaceae(K)
- 74. List the economically important plants of family Lilliaceae(K)
- 75. Differentiate between pinnately compound leaf and palmately compound leaf. (U)
- 76. Differentiate between apocarpous and syncarpous ovary.(U)
- 77. Differentiate between epipetalous and epiphyllous condition. (U)
- 78. Mention two major types of inflorescence.(K)
- 79. Name the accessory organs of the flower.(K)
- 80. Differentiate between gamosepalous and polysepalous.(U)
- 81. Differentiate between polyandrous and adelphy.(U)
- 82. Name the two layers of seed coat.(K)
- 83. Sketch and label a dicotyledonous seed.(S)

- 84. Mention the four types of aestivation in plants.(K)
- 85. Define valvate aestivation. Give an example. (A)
- 86. Define imbricate aestivation. Give an example. (A)
- 87. Define twisted aestivation. Give an example. (A)
- 88. Define vexillary aestivation. Give an example. (A)

THREE MARKS QUESTIONS:

- 89. Define- a) Trimerous b) Bracteate c) epipetalous (K)
- 90. Define- a)Monadelphous b) Diadelphous c)Polyadelphous (K)
- 91. Mention the regions of root tip. (A)
- 92. Write the floral characters of family Fabaceae.
- 93. Write the floral characters of family Solanaceae.
- 94. Write the floral characters of family Liliaceae.
- 95. Name the family to which the following plants belong to a) Sesbania b) Belladona c) Asparagus (K)
- 96. Explain the structure of a drupe. (U)
- 97. Name the three wall layers of a fruit. (K)
- 98. What is venation? Mention the types of venation.(K)
- 99. Explain three different types of phyllotaxy. (U)
- 100. How do various leaf modifications help plants?(U)
- 101. Describe the arrangement of floral members in relation to their insertion on thalamus. (U)
- 102. Mention any three modifications of stem with example. (A)
- 103. Write a note on symmetry of flower. (U)
- 104. Draw a floral diagram of family Fabaceae.(S)
- 105. Draw a floral diagram of family Solanaceae.(S)
- 106. Draw a floral diagram of family Liliaceae.(S)

FIVE MARKS QUESTIONS:

- 107. With the help of labelled diagram explain the different regions of root tip. (S)
- 108. Explain the structure of a dicotyledonous seed. (U)
- 109. Draw a neat labelled diagram to show different parts of a flowering plant.(S)
- 110. Write a note on modifications of stem.(U)
- 111. With the help of labelled diagram explain structure of leaf. (S)
- 112. Explain the different types of aestivation with relevant diagrams. Mention one example for each type.(U)
- 113. Write the semi technical description of a typical flowering plant.(S)
- 114. Describe various types of placentation found in flowering plants with suitable diagrams. (U)
- 115. What is a flower? Describe the four whorls of a flower. (U)
- 116. With the help of labelled diagram explain monocotyledonous seed.(S)
- 117. Write any five salient features of family Fabaceae . (K)
- 118. Write any five salient features of family Solanaceae . (K)
- 119. Write any five salient features of family Liliaceae. (K)