

BSc Sem IV
BOT-64T-203 - Plant Taxonomy and Economic Botany

Short Answer Type Questions:

1. Write taxonomic position of family Apocynaceae.
2. Write the botanical name of two plants of the family Apocynaceae.
3. Write the general name of family Asclepiadaceae.
4. What is pollinia?
5. What is the botanical name of two plants of family Convolvulaceae.
6. Write the floral formula of family Convolvulaceae.
7. Write the botanical name of two vegetables of the family Solanaceae.
8. Write taxonomic position of Solanaceae.
9. Which family is known as Vajradanti family?
10. What is a jaculator?
11. What is bilabiate corolla?
12. What is vertical inflorescence?
13. Describe Cyathium inflorescence.
14. Write the botanical name of two paper producing plants of Poaceae.
15. The Indian centre of origin has been subdivided into which regions.
16. Name the largest maize and wheat producing countries of the world.
17. Name two varieties of rice and maize grown in Rajasthan.
18. Name two largest rice producing nations of the world.
19. Name one example of diploidy, tetraploid and hexaploid wheat.
20. Name three varieties of wheat that brought the green revolution in our country.
21. What are cereals? Give an example.
22. Give the scientific name and family of Porso millet.
23. What are the nutritional benefits associated with millet consumption?
24. What is panicle inflorescence?
25. Give uses of *Sorghum bicolor*.
26. Comment on the origin and distribution of Sama (little millet).
27. Give the scientific name and family of Bajra.
28. Which millet is also known as finger millet?
29. What is the main difference between winter and spring wheat?
30. What is Spikelet inflorescence in Poaceae?
31. Define flora.
32. Write two reasons for rejecting a plant's name.
33. Define isotype.
34. Write a short note on binomial nomenclature.
35. Comments on the rules of the rank of taxa.
36. Write a note on the Botanical Survey of India.
37. State the basis of Linnaeus classification of plants.
38. State any two demerits of Bentham and Hooker's classification of plants.
39. Write a short note on natural classification.
40. Write a short note on APG classification.
41. Define herbarium.

42. What field data should be recorded in a field notebook while collecting plant specimens?
43. What is the standard size of plant press and herbarium sheet?
44. Comment upon the corolla in Fabaceae.
45. Give the distinguishing features of Asteraceae.
46. Write a short note on inflorescence of Ranunculaceae.
47. Write names of three plants of the family Malvaceae.
48. Write a short note on epicalyx and calyx of Malvaceae.
49. Write a note on the habit of plants of papilionaceae.
50. Write names of five economically important plants of Mimosoideae.
51. Write a note on androecium and gynoecium of Caesalpinioideae.
52. What is stylopodium?
53. Write names of two medicinal plants of family Apiaceae.
54. Write about the stipules of Rubiaceae.
55. Write a short note on characteristics features of Rubiaceae.
56. Write taxonomic position of family Asteraceae.
57. Write four advanced characters of family Asteraceae.
58. Explain how the members of Asteraceae are well adapted for rapid spread.
59. What is replum.
60. Name five families having superior ovary.
61. Which part of groundnut is used for extracting the oil
62. Name the family of mustard.
63. What is the scientific name of groundnut?
64. What is the scientific name of mustard?
65. Write about the inflorescence of mustard.
66. Which part of turmeric is used as Spice?
67. Write the scientific name and family of asafoetida.
68. Write the uses of cumin.
69. Write about the inflorescence of coriander.
70. What is the scientific name and family of Cumin.
71. Which part of red chilli is used as Spice and what is the type of it?
72. Write the scientific name and family of Chilli.
73. Asafoetida is extracted from which part of the plant and in which form?
74. Write the botanical characters of Chilli.
75. Write the scientific name and family of turmeric.
76. What is the scientific name and family of tea.
77. What are the uses of tea?
78. How coffee is extracted?
79. Which part of coffee plant is used?
80. Mention the uses of coffee.
81. Write about the inflorescence of Tulsi?
82. What is the scientific name and family of isabgol?
83. Write about the uses of Ashwagandha.
84. Which parts of the neem are used for medicinal purposes?

85. What are the uses of ephedra?
86. Write scientific name and family of Ashwagandha .
87. What is the scientific name and family of cotton?
88. What are the uses of jute?
89. Write about the origin of rubber plant.
90. What is the scientific name and family of sugarcane ?

Long answer type questions:

1. Write the floral characters along with the floral formula and floral diagram of family Apocynaceae.
2. Write in detail vegetative character and economic importance of family Apocynaceae.
3. Write vegetative character and economic importance for family Asclepiadaceae.
4. Write the floral characters, floral formula and floral diagram of family Asclepiadaceae.
5. Write the floral characters along with the floral formula and floral diagram of family Convolvulaceae
6. Write the floral characters, floral formula and floral diagram of family Solanaceae.
7. Write in detail vegetative character and economic importance of family Acanthaceae.
8. Write the floral characters, floral formula and floral diagram of family Lamiaceae.
9. Write in detail vegetative character and economic importance of family Euphorbiaceae.
10. Write the floral characters, floral formula and floral diagram of family Poaceae.
11. Discuss the centres of origin of cultivated plants as proposed by Vavilov.
12. Differentiate between primary and secondary crops giving two examples each.
13. Write an essay on the origin, botanical characters, cultivation, improved varieties and the uses of wheat.
14. Discuss origin, types, cultivation, improved varieties and uses of maize.
15. Write a detailed account of origin, botanical characters, cultivation and improved varieties of rice.
16. Write an essay on the origin, botanical characters, cultivation, improved varieties and the uses of Ragi.
17. Discuss origin, types, cultivation, improved varieties and uses of *Sorghum*.
18. Write a detailed account of origin, botanical characters, cultivation and uses of Sama (little millets).
19. Write a detailed account of origin, botanical characters, cultivation and improved varieties of Bajra.
20. Discuss origin, types, cultivation, improved varieties and uses of Variga (Porsu millet).
21. What do you understand by classification of plants? State the main features of the classification proposed by Bentham and Hooker.
22. Describe the plant classification given by Engler and Prantle. Write its merits and demerits.
23. Write a brief account of International Code of Botanical Nomenclature.
24. Write an essay on typification and principle of priority.
25. Write an essay on taxonomic literature.
26. What is the importance of herbarium in the taxonomy of angiosperms? Write the precaution you should take in preserving herbarium sheets.
27. Write a short note on pressing of plant specimens and mounting on herbarium sheets.

28. Discuss the role of other branches of botany in plant taxonomy.
29. What is the significance of embryological and cytological studies in taxonomy? Give suitable examples.
30. Write an essay on the importance of chemotaxonomy in taxonomy.
31. Write an essay on numerical taxonomy.
32. Write an essay on various equipment required for herbarium preparation.
33. Describe the inflorescence and flowers of the family Asteraceae.
34. Describe the family Ranunculaceae. Write the floral formula and draw the floral diagram of Delphinium.
35. Describe the salient features of the family Brassicaceae and give botanical names of five economically important plants of the family.
36. Describe the androecium and gynoecium of family Malvaceae and write about its economic importance.
37. Write the floral characters, floral formula and floral diagram of family Caesalpinioideae.
38. Give a comparative account of three subfamilies of Leguminosae.
39. Write the floral characters, floral formula and floral diagram of family Apiaceae.
40. Describe the family Rubiaceae and write economic importance of its plants.
41. Give a brief note on origin, cultivation and Botanical characters of groundnut.
42. Write about any two spices.
43. Write about the origin and botanical characters of tea.
44. Describe coffee and its economic importance.
45. Write a general account on turmeric and asafoetida.
46. Write a general account on isabgol and Ashwagandha.
47. Write a general account on Neem and ephedra.
48. Write about the origin and cultivation of cotton.
49. Write the scientific name and family of jute and its botanical characters.
50. Describe the types of cotton and its uses.
51. Write about processing of rubber.
52. Write about processing of sugarcane.
53. Give a brief note on distribution and botanical characters of cotton.
54. Write about the cultivation and distribution of jute.
55. Write a note on origin ,distribution and cultivation of mustard.