

SVRK GOVERNMENT DEGREE COLLEGE (M), NIDADAVOLE
BOTANY QUESTION BANK
PAPER-III

Essay Questions

1. What are the basic components of taxonomy?
2. Give a detailed account on aims and principles of plant taxonomy.
3. Give a brief account on principles and rules of ICBN.
4. Describe the classification of Bentham and Hooker. Mention the merits and demerits of it?
(Or) Explain any natural system of classification of angiosperms studied by you.
5. Explain Engler and Prantl's system of Classification. Mention the Merits and Demerits of Engler and Prantle system of classification.
6. Compare Bentham and Hooker's system with that of Engler and Prantle system of classification.
7. Mention different types of classifications?
8. Explain the phylogenetic system of classification of angiosperms studied by you.
9. Describe the vegetative and floral characters of the family Annonaceae and add a note on its economic importance?
10. Describe the vegetative and floral characters of the family Brassicaceae and add a note on its economic importance?
11. Describe the vegetative and floral characters of the family Rutaceae and add a note on its economic importance?
12. Describe the vegetative and floral characters of the family Cucurbitaceae and add a note on its economic importance?
13. Describe the vegetative and floral characters of the family Apiaceae (Umbelliferae) and add a note on its economic importance?
14. Describe the vegetative and floral characters of the family Asteraceae (compositae) and add a note on its economic importance.
15. Describe the vegetative and floral characters of the family Asclepiadaceae and add a note on its economic importance.
16. Describe the Vegetative and floral characters of the family Lamiaceae (Labiatae) and add a note on its economic importance?
17. Describe the vegetative and floral characters of the family Euphorbiaceae and add a note on its economic importance?
18. Describe the vegetative and floral characters of the family Arecaceae (Palmae) and add a note on its economic importance?
19. Describe the vegetative and floral characters of the family Poaceae (Graminae) and add a note on its economic importance?
20. Describe the structure of Microsporangium (Anthers) in angiospermic plants.
21. Describe the process of microsporogenesis and development of male gametophyte

in angiosperms.

22. Describe the structure of Megasporangium (ovule) in angiospermic plant.
23. Describe the process of megasporogenesis and the development of female gametophyte (Embryosac) in angiosperms(Or) Describe different types of Embryosac development studied by you .
24. Describe the development of Trisporic embryosac?
25. What is pollination ? Mention what are the contrivances for cross pollination.
26. Mention what are the contrivances for Self-pollination.
27. Give an account on agents of Cross Pollination?
28. Give an account on fertilization process in Angiosperms?(Or) What is double fertilization ? Describe the process of double fertilization.
29. Give an account on different types of endosperm development in angiosperms.
30. Describe the process of Dicotyledonous embryo development ?
31. Describe the process of Monocot embryo development ?
32. Give an account on Polyembryony?
33. Give an account on Pollen Pistil interaction.

Short Answer Questions

1. Herbarium.
2. Binomial nomenclature.
3. Flora and key.
4. Botanical gardens.
5. Tendril in Cucurbitaceae.
6. Cremocarp.
7. APG (Angiosperm phylogeny group)
8. Head (or) Capitulum (or) Anthodium.
9. Advanced characters of Asteraceae.
10. Pollinium and Pollination Mechanism in Asclepeadaceae.
11. Bilabiate Corolla (Bilipped).
12. Verticillaster.
13. Pollination Mechanism in Lamiaceae.
14. Cyathium.
15. Inflorescence in Oryza.
16. Lever mechanism in Salvia (or) Pollination mechanism in Salvia.
17. Anemophily.
18. Hydrophily,
19. Pollinating agents.
20. Tapetum.
21. Pollen Tetrad.
22. Pollen development in Cyperaceae.
23. Pollen grain Embryosacs. (Nemec Phenomenon).
24. Types of Ovules.

25. Endothelium
26. Embryo sac (Female Gametophyte)
27. Hypostase and Epistase.
28. Obturator.
29. Nutrition to Embryosac.
30. X-bodies.
31. Double fertilization
32. Bisporic Embryosac.
33. Crassinucellate and Tenuinucellate type of ovules.
34. Ruminant endosperm.
35. Integuments
36. Nucellus
37. Suspensor.
38. Cleavage Polyembryony.
39. Adventive Polyembryony.
40. Polyembryony.
41. Pseudo Polyembryony.
42. Significance of Polyembryony.
43. Parthenogenesis.
44. Caruncle and Aril.
45. Crucifer type of Embryo development.
46. Polyspermy.
47. Apogamy.
48. Aleurone tissue.
49. Nuclear endosperm.
50. Cellular endosperm.
51. Helobial endosperm.
52. Sexual incompatibility.
53. Self-incompatibility.