

MCQs FOR M. Sc. (BOTANY) SEM (II)s, PLANT TAXONOMY

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1. Taxon is-

- a) A taxonomic unit b) A species
c) A taxonomic group of any rank d) A genus

2 Phylogeny is the study of

- a) Evolution of plants b) Origin and development of plants
c) Origin and development of man d) Physiology of plants

3. Liliopsida is divided in to 5 sub-classes & 19 orders by

- a) Takhtajan b) Dehlgren c) Cronquist d) Thorne

4. System of classification based on a number of characters is referred as

- a) Phylogenetic system b) Artificial system
c) Natural system d) All of the above

5. The National Botanical Research Institute is located at

- a) Dehradun b) Delhi c) Gangtok d) Lucknow

6. Which year marked birth of modern system of biological nomenclature?

- a) 1753 b) 1857 c) 1757 d) 1854

7. Level of taxonomic study concerned with the biological aspects of taxa, including intraspecific populations, speciation, evolutionary rates and trends

- a) alpha taxonomy b) beta taxonomy c) gamma taxonomy d) theta taxonomy

8. Labellum in Orchidaceae comes to anterior side by the twisting of the ovary through 180 degrees.

This process is called

- a) adnation b) articulation c) resupination d) attenuatio

9. The Commelinaceae family is commonly known as the

- a) spiderwort family b) aster family c) grass family d) lily family

10. Foeniculum vulgare belongs to the family

- a) Rutaceae b) Meliaceae c) Apiaceae d) Brassicaceae

11. When two or more authors publish a new species or propose a new name, their names are linked using the epithet?

- a) In b) ex c) et d) emend

12. Binomials with identical genus name and specific epithet are called

- a) Homonym b) Tautonym c) Basionym d) Synonym

13. A document containing a comprehensive account of a specific taxonomic group, generally a genus or family is

- a) Manual b) Flora c) Monograph d) Revision

14. Which among the following is considered a demerit of the 'Engler and Prantl' system of classification?

- a) Gymnosperms are placed between Monocotyledons and Dicotyledons
b) Gymnosperms are placed among Dicotyledons
c) Dicotyledons are placed before Monocotyledons
d) Dicotyledons are placed after Monocotyledons

15. The principles of Numerical taxonomy were developed by

- a) Bentham And Hooker b) Engler And Prantl
c) Sneath And Sokal d) Takhtajan And Cronquist

16. The newly collected specimen which is used as a substitute, when the original type material is missing in a herbarium, is designated as

- a) Lectotype b) Holotype c) Neotype d) Isotype

17. Terpenoids have been extensively used in the chemotaxonomy of

- a) Citrus plants b) Hordeum plants c) Papaver plants d) Strychnos plants

18. The fruit of *Abelmoschus esculentus*

- a) **Loculisidal capsule** b) Capsule c) Berry d) Hesperidium

19. A pendulous type of inflorescence

- a) **Catkin** b) Head c) Spike d) Umbel

20. *Triticum dicoccum* is commonly known as

- a) **Emmer wheat** b) Club wheat c) Einkorn wheat d) Durum wheat

21. National orchidaria situated at

- a) Calcutta b) **Shillong** c) Calicut d) Palode

22. Ajmalicine, Serpentine, reserpine obtained from

- a) Aster group b) **Rauwolfia group** c) Liliaceae group d) Euphorbiaceae

23. Atropine is obtained from the plant

- a) Pacific yew b) **Belladonna** c) Periwinkle d) Foxglove

24. Tree of 21st century

- a) Rubber b) **Neem** c) orchid d) anthurium

25. *Pseudomonas tobaci* which produces the toxin when it affects the tobacco plant

- a) Victorin b) **Wild fire toxin** c) Periconia toxin d) Piricularin

26. Gynoecium of solanaceae is

- a) Monocarpellary b) Bicarpellary apocarpous
c) **Bicarpellary syncarpous** d) Polycarpellary syncarpous

27. The two carpels of solanaceae are placed

- a) Anteroposteriorly b) Laterally c) Superposed d) **Obliquely**

28. Placentation is swollen and axile in family

- a) Asteraceae b) Liliaceae c) Fabaceae d) **Solanaceae**

29. Vascular bundles are bicollateral while corolla is plicate in bud in family

a) Asteraceae b) **Solanaceae** c) Liliaceae d) Fabaceae

30. Epipetalous androecium occurs in

a) Brassicaceae b) Solanaceae c) Asteraceae d) **Both B and C**

31. *Cestrum nocturnum* belongs to family

a) **Solanaceae** b) Fabaceae c) Asteraceae d) Poaceae

32. *Datura* belongs to family

a) Asteraceae b) **Solanaceae** c) Liliaceae d) Poaceae

33. Chili is

a) *Solanum melongena*

b) *Atropa acuminata*

c) *Capsicum annuum*

d) *Physalis peruviana*

34. Tobacco is

a) Fruits of *Nicotiana*

b) Seeds of *Nicotiana*

c) **Dried leaves of *Nicotiana***

d) Dried roots of *Nicotiana*

35. *Atropa* yields

a) Spice

b) Vegetable

c) Narcotics

d) **Belladonna**

36. Egg plants belongs to

a) Brassicaceae

b) **Solanaceae**

c) Poaceae

d) Liliaceae

37. Botanical name of Gram is

a) *Phaseolus aureus*

b) *Phaseolus mungo*

c) ***Cicer arietinum***

d) *Cajanus cajan*

38. Which one possesses numerous ovules in its pistil

a) Asteraceae

b) Poaceae

c) **Solanoceae**

d) Both A and B

39. Nicotine is obtained from a plant belonging to

a) Liliaceae

b) **Solanaceae**

c) Brassicaceae

d) Asteraceae

40. Botanical name of Henbane is

a) **Hyoscyamus niger**

b) *Physalis peruviana*

c) *Cestrum diurnum*

d) *Withania somnifera*

41. Flower of *Brassica* is

a) Tricyclic

b) Tetracyclic

c) **Pentacyclic**

d) Hexacyclic

42. Largest dicot family is

a) Fabaceae

b) Solanaceae

c) **Asteraceae**

d) *lamiaceae*

43. In *Iberis*, zygomorphy is due to

a) **Outer petals**

b) Inner petals

c) Outer stamens

d) Inner stamens

44. Candytuft is

a) ***Iberis***

b) *Cheiranthus*

c) *Lunaria*

d) *Lobularia*

45. Siliqua fruit is characteristic of family

a) Poaceae

b) Fabaceae

c) **Brassicaceae**

d) Asteraceae

46. Family Brassicaceae/cruciferae is characterized by

a) Marginal placentation

b) **Parietal placentation**

c) Basal placentation

d) Axile placentation

47. Peculiar feature in the ovary of Brassicaceae is presence of

a) Parietal placentation

b) **False septum**

c) Bilocular ovary

d) Both A and B

48. In tetradynamous condition the stamens are

a) 2 short and 2 long

b) 4 short and 2 long

c) **4 long and 2 short**

d) 4 long and 4 short

49. Plant part used as vegetable in *Brassica oleracea* var. *botrytis* is

a) Terminal bud

b) Axillary bud

c) **Unripe inflorescence**

d) Fruit

50. Wall flower, an ornamental and medicinal plant of Brassicaceae, is

a) *Brassica alba*

b) ***Cheiranthus cheiri***

c) *Lepidium sativa*

d) *Matthiola incana*

51. Aeschynomene belongs to family

- a) **Fabaceae** b) Brassicaceae c) Solanaceae d) Asteraceae

52. Aeschynomene is mostly

- a) Halophyte b) Xerophyte c) Mesophyte d) **Aquatic**

53. Wood of Aeschynomene is

- a) Lighter like cork b) **Lighter than cork** c) Heavier like iron wood d) Heavier than iron wood

54. Nodulated roots are characteristic of family

- a) **Fabaceae** b) Asteraceae c) Poaceae d) Solanaceae

55. Lateral leaflets show autonomous movements in

- a) **Desmodium** b) Crotalaria c) Lathyrus d) Lens

56. Odd sepal is anterior in family

- a) Solanaceae b) Asteraceae c) Brassicaceae d) **Fabaceae**

57. In papilionaceous corolla the largest petal is

- a) Anterior b) **Posterior** c) Lateral d) Anteriolateral

58. Largest petal of papilionaceous corolla is called

- a) Standard b) Vexillum c) Ala d) **Both A and B**

59. petals form a boat shaped structure in papilionaceous corolla

- a) One, anterior b) One, posterior c) **Two, anterior** d) Two lateral

60. Gynoecium of fabaceae is

- a) Bicarpellary syncarpous b) Polycarpellary apocarpous
c) Polycarpellary syncarpous d) **Monocarpellary**

61. Fruit is legume in family

- a) **Fabaceae** b) Asteraceae c) Poaceae d) Solanaceae

62. Persistent and accrescent calyx occurs in

a) Syntype b) Isotype c) **Holotype** d) Lectotype

73. Size of herbarium sheet standard is

- a) **41.25 x 28.75 cms** b) 21.25 x 28.75 cms
c) 28.25 x 28.75 cms d) 31.25 x 28.75 cms

74. Binomial system of nomenclature for plants is effective from

- a) **1.5.1753** b) 5.8.1758
c) 5.7.1758 d) 1.5.1573

75. Karyotaxonomy is based on

- a) organic evolution b) chemotaxonomy
c) morphological characters d) number of chromosomes

NOTE: Red mark option is correct option.