



QUARTERLY EXAMINATION - 2023

XI - STD

BOTANY

Marks : 70

TIME: 3.00 Hrs

Part - A

15 x 1 = 15

Choose the correct Answer.

- Select the mismatch pair
 - Musa - Unicostate
 - Lablab - Trifoliolate
 - Acalypha - Leaf mosaic
 - Allamanda - Ternate phyllotaxy
- Endosperm in gymnosperm is formed
 - At the time of fertilization
 - Before fertilization
 - After fertilization
 - Along with the development of embryo
- In meiosis crossing over is initiated at
 - Diplotene
 - Pachytene
 - Leptotene
 - Zygotene
- Which of the following is polycarpic plant?
 - Mangifera
 - Bambusa
 - Musa
 - Agave
- Sequences of which of the following is used to know the phylogeny.
 - mRNA
 - rRNA
 - tRNA
 - Hn RNA
- Vexillary aestivation is characteristic of the family
 - Fabaceae
 - Asteraceae
 - Solanaceae
 - Brassicaceae
- Many cells function properly and divide mitotically even though they do not have.
 - Plasma membrane
 - cytoskeleton
 - mitochondria
 - Plastids
- Which of following represents gametophytic generation in pteridophytes?
 - Prothallus
 - Thallus
 - Cone
 - Rhizophore
- The pairing of homologous chromosomes on meiosis is known as
 - Bivalent
 - Synapsis
 - Disjunction
 - Synergids
- The taxonomy which involves the similarities and dissimilarities among the immune system of different taxa is termed as
 - Chemotaxonomy
 - Molecular systematics
 - Serotaxonomy
 - Numerical taxonomy
- Identify the Archaeobacterium
 - Acetobacter
 - Erwinia
 - Treponema
 - Methanobacterium
- Which of the following is a flowering plant with nodules containing filamentous nitrogen fixing micro - organisms?
 - Crotalaria juncea
 - Cycas revoluta
 - Cicer arietinum
 - Casuarina equisetifolia
- Identify the incorrect statement about the Gram-positive bacteria
 - Teichoic acid absent
 - High percentage of peptidoglycan is found in cell wall
 - Cell wall is single layered
 - Lipopolysaccharide is present in cell wall
- The most basic amino acid is
 - Arginine
 - Histidine
 - Glycine
 - Glutamine
- In an inflorescence where flowers are borne laterally in an acropetal succession the position of the youngest floral bud shall be
 - Proximal
 - Distal
 - Intercalary
 - Anywhere

XI - BOTONY



Part - B
QUARTERLY EXAMINATION 2023

Answer any SIX of the following Question. Number 24 is Compulsory. 6 x 2 = 12

- 16. Distinguish between nitrogenous base and a base found in inorganic chemistry.
- 17. Where will you place the plants which contain two cotyledons with cup shaped thalamus?
- 18. Write any two significance of mitosis.
- 19. What is plectostele? give example
- 20. Differentiate between aggregate fruit with multiple fruit.
- 21. Bring out the significance of Transmission Electron Microscope.
- 22. Write notes on Primary functions of the Stem
- 23. What is Nucule?
- 24. What is Archaeobacteria?

Answer any SIX of the following Question, Number 33 is Compulsory. 6 x 3 = 18

- 25. Write the distinguishing features of monera
- 26. Do you think shape of chloroplast is unique for algae. Justify your answer?
- 27. Give the short notes on Polytene chromosomes
- 28. Find out the floral formula for a bisexual flower with bract, regular pentamerous, distinct calyx and corolla, superior ovary without bracteole.
- 29. What is uses of Herbarium
- 30. Bring out the significance of cell wall.
- 31. Write any three significance of meiosis.
- 32. List out the Properties of Enzyme
- 33. Draw and label the parts of regions of root.

Answer all the questions.

- 34. Add a note on merits and demeri of five kingdom classification [or] system of different taxa is termed as
- 35. Differentiate Gymnosperms and Angiosperms [or] What is Root Modification? Describe Taproot modification.
- 36. Explain the Phylotaxy
- 37. Explain the type of Placentation [or] Discuss the outline of Bentham and Hooker's classification of plants.
- 38. Give the floral characters of Clitoria ternatea. [or] Identify the incorrect statement about the Gram-positive bacteria
- 39. Differentiate between mitosis and meiosis
- 40. Difference between plant and animal cell. [or] Explain the structure of DNA.
- 41. In an inflorescence where flowers are borne laterally in an acropetal succession the position of the youngest floral bud shall be
- 42. The most basic amino acid is
- 43. Identify the Archaeobacterium
- 44. Which of the following is a flowering plant with nodules containing filamentous nitrogen fixing micro organisms?
- 45. The taxonmy which involves the similarities and dissimilarities among the immune system of different taxa is termed as
- 46. The pairing of homologous chromosomes on meiosis is known as
- 47. Many cells function properly and divide mitotically even though they do not have
- 48. Which of following represents gametophytic generation in pteridophytes?
- 49. Plasma membrane
- 50. Which of following represents gametophytic generation in pteridophytes?
- 51. Prothallus
- 52. The pairing of homologous chromosomes on meiosis is known as
- 53. Bivalent
- 54. The taxonomy which involves the similarities and dissimilarities among the immune system of different taxa is termed as
- 55. Chromotaxonomy [or] Chemotaxonomy
- 56. Identify the Archaeobacterium
- 57. Acetobacter
- 58. Which of the following is a flowering plant with nodules containing filamentous nitrogen fixing micro organisms?
- 59. Crotalaria juncea
- 60. Cycas revoluta
- 61. Identify the incorrect statement about the Gram-positive bacteria
- 62. Teichoic acid absent
- 63. Cell wall is single layered
- 64. The most basic amino acid is
- 65. Arginine
- 66. In an inflorescence where flowers are borne laterally in an acropetal succession the position of the youngest floral bud shall be
- 67. Proximal
- 68. Distal
- 69. Intercalary
- 70. Anywhere

XI - BOTANY

XI - BOTONY