

14. Mendel worked on
- a) Wheat plant
 - b) Pea plant
 - c) Rice plant
 - d) Maize plant
15. Crossing over occurs during
- a) Prophase-I
 - b) Metaphase
 - c) Anaphase
 - d) Telophase
16. DNA replication is
- a) Conservative
 - b) Semi-conservative
 - c) Dispersive
 - d) Random
17. Ecosystem includes
- a) Tertiary consumers only
 - b) Water only
 - c) Biotic and abiotic components
 - d) Producers only
18. Neem is used as
- a) Fiber plant
 - b) Medicinal plant
 - c) Timber plant
 - d) Dye plant
19. Photosynthesis occurs in
- a) Mitochondria
 - b) Chloroplast
 - c) Nucleus
 - d) Cytoplasm
20. CAM plants open stomata at
- a) Day
 - b) Night
 - c) Afternoon
 - d) Noon
21. Flower is a modified
- a) Root
 - b) Leaf
 - c) Shoot
 - d) Stem

22. Pollination by wind is termed as
- a) Entomophily
 - b) Hydrophily
 - c) Anemophily
 - d) Ornithophily
23. Pollen grain develops into
- a) Embryo
 - b) Male gametophyte
 - c) Ovules
 - d) Zygote
24. Megasporogenesis forms
- a) Pollen
 - b) Stigma
 - c) Megaspores
 - d) Zygote
25. Double fertilization forms
- a) Zygote only
 - b) Endosperm only
 - c) Both zygote and endosperm
 - d) Ovules
26. Entry of pollen tube through micropyle is
- a) Chalazogamy
 - b) Porogamy
 - c) Mesogamy
 - d) Syngamy
27. Embryo sac is
- a) Male structure
 - b) Female gametophyte
 - c) Sporophyte
 - d) Gamete
28. Polyembryony means
- a) One embryo
 - b) Many embryos
 - c) No embryo
 - d) Double embryo
29. Apomixis is
- a) Sexual reproduction
 - b) Pollination
 - c) Asexual seed formation
 - d) Fertilization

30. Which of the following represents a type of endosperm development in angiosperms?
- a) Nuclear
 - b) Mechanical
 - c) Chemical
 - d) Structural
31. Water moves in xylem by
- a) Diffusion
 - b) Transpiration pull
 - c) Osmosis
 - d) Active transport
32. Transpiration occurs through
- a) Roots
 - b) Stomata
 - c) Phloem
 - d) Cortex
33. Phloem transports
- a) Water
 - b) Sugars
 - c) Minerals
 - d) Proteins
34. Active uptake requires
- a) Energy
 - b) Water
 - c) Pressure
 - d) Heat
35. Potassium is a
- a) Micronutrient
 - b) Macronutrient
 - c) Vitamin
 - d) Hormone
36. Iron deficiency causes
- a) Chlorosis
 - b) Necrosis
 - c) Wilting
 - d) Growth
37. Reactive Oxygen Species are basically
- a) Beneficial
 - b) Toxic byproducts
 - c) Enzymes
 - d) Hormones

38. Salinity stress causes
- a) Growth increase
 - b) Ion toxicity
 - c) Photosynthesis increase
 - d) Flowering
39. SAR stands for
- a) Systemic Acquired Resistance
 - b) Stress Active Response
 - c) Soil Active Resistance
 - d) Systolic Acquired resistance
40. Source-sink relation is in
- a) Xylem
 - b) Phloem
 - c) Cortex
 - d) Cambium
41. Inheritance of ear length in maize is an example of
- a) Polygene inheritance
 - b) Mendelian inheritance
 - c) Monogenic inheritance
 - d) Cytoplasmic inheritance
42. are physical mutagens.
- a) Hydroxyl amine
 - b) Nitrous oxide
 - c) UV rays
 - d) Colchicine
43. In TLC the adsorbent used on the glass plate is
- a) Silica gel
 - b) Agar agar
 - c) Alumina
 - d) Copper
44. The cell wall of fungi is primarily composed of
- a) Cellulose
 - b) Chitin
 - c) Peptidoglycan
 - d) Lignin
45. is an example of a bryophyte.
- a) Fern
 - b) Moss
 - c) Pine
 - d) Cycas

46. Totipotency means
- a) Cell death
 - b) Cell division
 - c) Cell can form whole plant
 - d) Cell elongation
47. Which of the following culture media is used in plant tissue culture?
- a) Murashige and Skoog's medium (MS)
 - b) Dulbecco's modified Eagle medium (DMEM)
 - c) Potato Dextrose Agar Medium (PDA)
 - d) Czapek Dox Agar medium (CDA)
48. Callus means
- a) Root cells
 - b) Undifferentiated cells
 - c) Leaf cells
 - d) Stem cells
49. Organogenesis forms
- a) Organs
 - b) Cells
 - c) DNA
 - d) Proteins
50. Protoplast lacks
- a) Nucleus
 - b) Cell wall
 - c) Cytoplasm
 - d) Membrane
51. Somatic hybridization uses
- a) Seeds
 - b) Protoplast fusion
 - c) Pollination
 - d) Cloning
52. Cybrid is produced by fusion of cells having
- a) Same nucleus and cytoplasm
 - b) Different nuclei and same cytoplasm
 - c) Nucleus of one cell and cytoplasm of another cell
 - d) Many cells together

53. Electroporation requires
- a) Heat
 - b) Electricity
 - c) Light
 - d) Sound
54. GFP stands for
- a) Green Fluorescent Protein
 - b) General Fluctuating Protein
 - c) Gene Fluorescent Protein
 - d) Growth Fluorescent Protein
55. Microinjection method of gene transfer involves
- a) Injection of DNA
 - b) Injecting RNA
 - c) Injecting Antigen
 - d) Injecting Antibody
56. DNA is mainly located in the
- a) Cytoplasm
 - b) Nucleus
 - c) Ribosome
 - d) Vacuole
57. The shape of DNA is:
- a) Circular
 - b) Single helix
 - c) Double helix
 - d) Linear
58. Which nitrogenous base is present in DNA but not in RNA?
- a) Adenine
 - b) Cytosine
 - c) Thymine
 - d) Guanine
59. A segment of DNA that codes for a protein is called a/an
- a) Chromosome
 - b) Gene
 - c) Nucleus
 - d) Enzyme
60. DNA is made up of repeating units called
- a) Amino acids
 - b) Nucleotides
 - c) Fatty acids
 - d) Sugars

61. Olericulture deals with
- a) Fruits
 - b) Vegetables
 - c) Flowers
 - d) Seeds
62. Pomology deals with
- a) Fruits
 - b) Vegetables
 - c) Flowers
 - d) Roots
63. Hydroponics means
- a) Soil farming
 - b) Water culture without soil
 - c) Organic farming
 - d) Dry farming
64. NHB supports
- a) Forestry
 - b) Horticulture
 - c) Fisheries
 - d) Industry
65. Grapes (*Vitis vinifera*) requires
- a) Shade
 - b) Support system
 - c) Water logging
 - d) Acidic soil
66. is a chemical preservative used in acidic foods.
- a) Sugar
 - b) Oil
 - c) Salt
 - d) Sodium benzoate
67. is an example of Biofertilizer.
- a) Urea
 - b) Rhizobium
 - c) Pesticide
 - d) Herbicide
68. Cut flowers should be kept during transportation.
- a) Loose
 - b) Dry
 - c) Sealed
 - d) In ventilated bundles

77. Field research involves
- a) Lab work
 - b) Survey
 - c) Library work
 - d) Theoretical work
78. Micrometer measures
- a) Temperature
 - b) Size of cells
 - c) Pressure
 - d) Light
79. Plagiarism means
- a) Copying work without credit
 - b) Writing
 - c) Reading
 - d) Publishing
80. GIS stands for
- a) Geographic Information System
 - b) General Info System
 - c) Geo Interface System
 - d) Global Info System
81. Carbon credits reduce
- a) Oxygen
 - b) CO₂ emission
 - c) Water
 - d) Soil
82. Amla is rich in
- a) Protein
 - b) Vitamin C
 - c) Fat
 - d) Sugar
83. Shikakai is
- a) Sapindus indica
 - b) Senegalia concinna
 - c) Aloe barbadense
 - d) Melia azadirachta
84. Adulteration affects
- a) Color
 - b) Safety and efficacy
 - c) Smell
 - d) Shape

85. Rosa indica is used for preparation
- a) Edible oil
 - b) Fiber
 - c) Medicine
 - d) Perfume
86. Forest management includes of plants
- a) Conservation
 - b) Deforestation
 - c) Mining
 - d) Burning
87. Opening and closing of stomata is controlled by
- a) Epidermal cells
 - b) Guard cells
 - c) Xylem cells
 - d) Phloem cells
88. In situ conservation means conservation of germplasm in
- a) Lab
 - b) Natural habitat
 - c) Garden
 - d) Storage
89. Sacred groves help in
- a) Pollution
 - b) Conservation
 - c) Mining
 - d) Industry
90. NCBI is a/an
- a) Database
 - b) Enzyme
 - c) Hormone
 - d) Tool
91. BLAST is used for
- a) Protein
 - b) Sequence comparison
 - c) Growth
 - d) Photosynthesis
92. Mean is nothing but the of the readings
- a) Average
 - b) Median
 - c) Mode
 - d) Range

93. Histogram represents the S
- a) Text
 - b) Data graphically
 - c) Table
 - d) Equation
94. Sampling includes
- a) Census
 - b) Random sampling
 - c) Observation
 - d) Testing
95. Mutation breeding uses for improvement of crop varieties.
- a) Heat
 - b) Radiation
 - c) Water
 - d) Soil
96. Male sterility helps in
- a) Growth
 - b) Hybridization
 - c) Respiration
 - d) Photosynthesis
97. Hybridization means male and female plants
- a) Crossing
 - b) Cutting
 - c) Layering
 - d) Grafting
98. In which year was the Biological Diversity Act enacted in India?
- a) 1990
 - b) 2002
 - c) 2010
 - d) 1980
99. Ethnobotany deals with studies on
- a) Plant properties
 - b) Traditional plant use
 - c) Soil
 - d) Water
100. Rauvolfia serpentina is used for
- a) Dye
 - b) Medicine
 - c) Fiber
 - d) Timber



- Rough Work -