

Quiz: Botany set 24

Q1151: Which taxonomic category is a group of related families?

- A) Genus
- B) Order
- C) Class
- D) Phylum

Q1152: Which algal group has reserve food material as floridean starch?

- A) Chlorophyceae
- B) Phaeophyceae
- C) Rhodophyceae
- D) Cyanophyceae

Q1153: Which plant group is commonly known as amphibians of plant kingdom?

- A) Algae
- B) Bryophytes
- C) Pteridophytes
- D) Gymnosperms

Q1154: The edible part of castor seed is:

- A) Endosperm
- B) Embryo
- C) Cotyledons
- D) Testa

Q1155: Which tissue is responsible for formation of annual rings?

- A) Cork cambium
- B) Vascular cambium
- C) Apical meristem
- D) Intercalary meristem

Q1156: Which cell wall component provides rigidity and strength?

- A) Cellulose
- B) Pectin
- C) Lignin
- D) Suberin

Q1157: Which organelle modifies, packages and transports proteins?

- A) Ribosome
- B) Endoplasmic reticulum
- C) Golgi apparatus
- D) Lysosome

Q1158: Which biomolecule acts as secondary messenger in cells?

- A) Proteins
- B) Carbohydrates
- C) Lipids

D) Nucleic acids

Q1159: Which phase of cell cycle shows preparation for mitosis?

- A) G1
- B) S
- C) G2
- D) M

Q1160: Movement of water through cytoplasm and plasmodesmata is called:

- A) Apoplast pathway
- B) Symplast pathway
- C) Diffusion
- D) Mass flow

Q1161: Which mineral nutrient is a component of nitrogenase enzyme?

- A) Iron
- B) Calcium
- C) Magnesium
- D) Zinc

Q1162: Which pigment is responsible for absorption of blue light?

- A) Chlorophyll a
- B) Chlorophyll b
- C) Carotenoids
- D) Phycobilins

Q1163: Which compound is the primary CO₂ acceptor in C4 plants?

- A) RuBP
- B) PEP
- C) OAA
- D) Malate

Q1164: Which respiratory step occurs in mitochondria?

- A) Glycolysis
- B) Fermentation
- C) Krebs cycle
- D) Photolysis

Q1165: Which plant hormone breaks seed dormancy?

- A) Auxin
- B) Cytokinin
- C) Gibberellin
- D) Ethylene

Q1166: Which structure of ovule functions as point of attachment?

- A) Micropyle
- B) Chalaza
- C) Funiculus
- D) Nucellus

Q1167: Which breeding method is useful for vegetatively propagated crops?

- A) Pureline selection
- B) Mass selection
- C) Clonal selection
- D) Backcrossing

Q1168: Which microorganism is used in production of butyric acid?

- A) Saccharomyces
- B) Acetobacter
- C) Clostridium
- D) Lactobacillus

Q1169: Which enzyme joins Okazaki fragments during DNA replication?

- A) Helicase
- B) DNA polymerase
- C) DNA ligase
- D) Primase

Q1170: Which population parameter represents individuals leaving a population?

- A) Natality
- B) Mortality
- C) Immigration
- D) Emigration

Q1171: Which trophic level has maximum energy content?

- A) Producers
- B) Primary consumers
- C) Secondary consumers
- D) Top carnivores

Q1172: Which biodiversity pattern shows maximum species richness near equator?

- A) Species-area relationship
- B) Latitudinal gradient
- C) Island biogeography
- D) Succession

Q1173: Which pollutant causes Minamata disease?

- A) Lead
- B) Mercury
- C) Cadmium
- D) Arsenic

Q1174: Which taxonomic aid contains information on plants available for sale?

- A) Flora
- B) Catalogue
- C) Monograph
- D) Herbarium

Q1175: Which algae shows haplontic life cycle?

- A) Fucus
- B) Ectocarpus
- C) Ulothrix
- D) Polysiphonia

Q1176: Which tissue is living and provides mechanical support?

- A) Parenchyma
- B) Collenchyma
- C) Sclerenchyma
- D) Xylem vessels

Q1177: Which plastid stores oils and fats?

- A) Amyloplast
- B) Elaioplast
- C) Proteinoplast
- D) Chromoplast

Q1178: Which nitrogenous base pairs with guanine in DNA?

- A) Adenine
- B) Thymine
- C) Cytosine
- D) Uracil

Q1179: Which stage of meiosis shows separation of homologous chromosomes?

- A) Anaphase I
- B) Anaphase II
- C) Metaphase I
- D) Telophase I

Q1180: Which force is mainly responsible for ascent of sap in tall trees?

- A) Root pressure
- B) Capillarity
- C) Transpiration pull
- D) Diffusion

Q1181: Which micronutrient is involved in photolysis of water?

- A) Iron
- B) Copper
- C) Manganese
- D) Zinc

Q1182: Which pathway reduces photorespiration by temporal separation?

- A) C₃ pathway
- B) C₄ pathway
- C) CAM pathway
- D) Calvin cycle

Q1183: Which respiratory substrate gives respiratory quotient equal to 1?

- A) Proteins
- B) Fats
- C) Carbohydrates
- D) Organic acids

Q1184: Which hormone inhibits growth and induces dormancy?

- A) Auxin
- B) Cytokinin
- C) Gibberellin
- D) Abscisic acid

Q1185: Which part of ovule persists as micropyle in seed?

- A) Hilum
- B) Chalaza
- C) Micropyle
- D) Funiculus

Q1186: Which breeding method is used to improve disease resistance by gene transfer?

- A) Mass selection
- B) Pureline selection
- C) Backcrossing
- D) Mutation breeding

Q1187: Which microorganism is used in production of antibiotics?

- A) Rhizobium
- B) Streptomyces
- C) Nitrosomonas
- D) Azotobacter

Q1188: Which technique is used to identify specific DNA sequences?

- A) PCR
- B) Gel electrophoresis
- C) Southern blotting
- D) Chromatography

Q1189: Which dispersion pattern shows random distribution of individuals?

- A) Random
- B) Uniform
- C) Clumped
- D) Regular

Q1190: Which ecological pyramid may be inverted in aquatic ecosystems?

- A) Pyramid of energy
- B) Pyramid of biomass
- C) Pyramid of numbers
- D) All pyramids

Q1191: Which biome is characterised by very low rainfall and sparse vegetation?

- A) Desert
- B) Savanna
- C) Taiga
- D) Tundra

Q1192: Which gas contributes to acid rain formation?

- A) Carbon dioxide
- B) Sulphur dioxide
- C) Methane
- D) Oxygen

Q1193: Which system of classification is based on natural affinities?

- A) Artificial
- B) Natural
- C) Phylogenetic
- D) Numerical

Q1194: Which algae is used for production of carrageenan?

- A) Gelidium
- B) Chondrus
- C) Sargassum
- D) Ulothrix

Q1195: Which tissue lies just inside endodermis?

- A) Cortex
- B) Pericycle
- C) Cambium
- D) Pith

Q1196: Which plastid imparts colour to fruits and flowers?

- A) Chloroplast
- B) Chromoplast
- C) Leucoplast
- D) Amyloplast

Q1197: Which nitrogenous base pairs with adenine in DNA?

- A) Uracil
- B) Cytosine
- C) Guanine
- D) Thymine

Q1198: Which stage of mitosis shows reappearance of nuclear membrane?

- A) Prophase
- B) Metaphase
- C) Anaphase
- D) Telophase

Q1199: Which force contributes least to ascent of sap in tall trees?

- A) Transpiration pull
- B) Cohesion
- C) Adhesion
- D) Root pressure

Q1200: Which international agreement focuses on reduction of greenhouse gas emissions?

- A) Montreal Protocol
- B) Kyoto Protocol
- C) Ramsar Convention
- D) CBD