

Quiz: Botany set 27

Q1301: Which taxonomic category includes organisms with maximum number of similar characters?

- A) Family
- B) Genus
- C) Species
- D) Order

Q1302: Which algal group shows reserve food material as floridean starch?

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

Q1303: Which plant group shows heterospory and is a precursor of seed habit?

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

Q1304: The edible part of maize grain is:

- A) Embryo
- B) Endosperm
- C) Aleurone layer
- D) Testa

Q1305: Which tissue is responsible for secondary growth in dicot root?

- A) Apical meristem
- B) Intercalary meristem
- C) Lateral meristem
- D) Protoderm

Q1306: Which cell wall component provides elasticity to young tissues?

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

Q1307: Which organelle contains enzymes for photorespiration?

- A) Mitochondria
- B) Peroxisome
- C) Chloroplast
- D) Lysosome

Q1308: Which biomolecule is most abundant in living cells?

- A) Proteins
- B) Carbohydrates
- C) Lipids
- D) Nucleic acids

Q1309: Which stage of cell cycle shows duplication of centrioles?

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

Q1310: Movement of water across membrane driven by difference in water potential is called:

- A) Diffusion
- B) Osmosis
- C) Active transport
- D) Mass flow

Q1311: Which mineral nutrient is required for synthesis of ATP?

- A) Nitrogen
- B) Phosphorus
- C) Potassium
- D) Calcium

Q1312: Which pigment is the reaction centre of photosystem I?

- A) P680
- B) P700
- C) Chlorophyll b
- D) Carotene

Q1313: Which compound is the first stable product of Calvin cycle?

- A) RuBP
- B) Oxaloacetic acid
- C) 3-phosphoglyceric acid
- D) Malic acid

Q1314: Which respiratory pathway occurs in cytoplasm?

- A) Krebs cycle
- B) Electron transport chain
- C) Glycolysis
- D) Photorespiration

Q1315: Which plant hormone is responsible for apical dominance?

- A) Auxin
- B) Cytokinin
- C) Ethylene
- D) Absciscic acid

Q1316: Which part of ovule provides nourishment to embryo sac?

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

Q1317: Which breeding method involves repeated selfing to obtain homozygous lines?

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

Q1318: Which microorganism is used in production of citric acid?

- A) Penicillium
- B) Aspergillus niger
- C) Saccharomyces
- D) Clostridium

Q1319: Which enzyme is responsible for joining Okazaki fragments?

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

Q1320: Which population parameter refers to addition of individuals by birth?

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

Q1321: Which trophic level occupies the first position in food chain?

- A) Primary consumers
- B) Secondary consumers
- C) Producers
- D) Decomposers

Q1322: Which biodiversity level represents diversity between communities?

- A) Alpha diversity
- B) Beta diversity
- C) Gamma diversity
- D) Genetic diversity

Q1323: Which pollutant causes eutrophication of water bodies?

- A) Carbon monoxide
- B) Sulphur dioxide
- C) Nitrates and phosphates
- D) CFCs

Q1324: Which taxonomic aid gives detailed description of a single species or genus?

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

Q1325: Which algae shows isomorphic alternation of generations?

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

Q1326: Which plant tissue consists of living cells with unevenly thickened walls?

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

Q1327: Which plastid stores oils and fats?

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

Q1328: Which nitrogenous base is absent in RNA?

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

Q1329: Which stage of meiosis shows crossing over?

- A) Leptotene
- B) Zygotene
- C) Pachytene
- D) Diplotene

Q1330: Which force is mainly responsible for ascent of sap in tall trees?

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

Q1331: Which micronutrient is a component of plastocyanin?

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

Q1332: Which pathway reduces photorespiration by temporal separation?

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

Q1333: Which respiratory substrate gives respiratory quotient greater than 1?

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

Q1334: Which plant hormone inhibits growth and induces dormancy?

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

Q1335: Which part of ovule persists as micropyle in seed?

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

Q1336: Which breeding method is used to introduce a specific gene into an elite variety?

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

Q1337: Which microorganism is used in production of antibiotics like streptomycin?

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

Q1338: Which technique is used to separate DNA fragments based on size?

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

Q1339: Which dispersion pattern shows maximum competition among individuals?

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

Q1340: Which ecological pyramid is always upright?

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

Q1341: Which biome is characterised by very low temperature and permafrost?

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

Q1342: Which gas is a major contributor to global warming?

- A) Oxygen
- B) Nitrogen
- C) Carbon dioxide
- D) Helium

Q1343: Which classification system is based on evolutionary relationships?

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

Q1344: Which algae is used as a source of agar?

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

Q1345: Which tissue lies just inside the endodermis in root?

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

Q1346: Which plastid imparts colour to ripe fruits?

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

Q1347: Which nitrogenous base pairs with adenine in RNA?

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

Q1348: Which stage of mitosis shows separation of sister chromatids?

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

Q1349: Which force contributes least to ascent of sap in tall trees?

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

Q1350: Which international agreement focuses on conservation of wetlands?

- A) Montreal Protocol
- B) Kyoto Protocol
- C) Ramsar Convention
- D) Convention on Biological Diversity