

## **Quiz: Botany set 26**

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**Q1251: Which taxonomic category includes one or more related orders?**

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

**Q1252: Which algal group possesses chlorophyll a and d?**

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

**Q1253: Which plant group lacks vascular tissues?**

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

**Q1254: The edible part of coconut is:**

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

**Q1255: Which tissue is responsible for increase in girth of stem?**

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

**Q1256: Which substance makes cork cells impermeable?**

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

**Q1257: Which organelle contains hydrolytic enzymes?**

- A) Ribosome
- B) Golgi apparatus
- C) Lysosome
- D) Peroxisome

**Q1258: Which biomolecule is the main structural component of cell membranes?**

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

D) Nucleic acids

**Q1259: Which phase of cell cycle immediately precedes mitosis?**

- A) G1 phase
- B) S phase
- C) G2 phase
- D) G0 phase

**Q1260: Movement of water through living cells is called:**

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

**Q1261: Which mineral nutrient is a component of chlorophyll?**

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

**Q1262: Which pigment acts as reaction centre of photosystem II?**

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

**Q1263: Which compound is the first stable product of C4 pathway?**

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

**Q1264: Which respiratory step produces NADH and FADH<sub>2</sub>?**

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

**Q1265: Which plant hormone is associated with fruit ripening?**

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

**Q1266: Which part of ovule develops into seed coat?**

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

**Q1267: Which breeding method involves repeated crossing with recurrent parent?**

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

**Q1268: Which microorganism is used in production of biogas?**

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

**Q1269: Which enzyme joins Okazaki fragments?**

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

**Q1270: Which population parameter refers to addition of individuals from outside?**

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

**Q1271: Which trophic level has minimum energy?**

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

**Q1272: Which biodiversity level refers to total species diversity of a region?**

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

**Q1273: Which pollutant shows biomagnification in food chains?**

- A) Carbon dioxide
- B) Sulphur dioxide
- C) DDT
- D) Ammonia

**Q1274: Which taxonomic aid consists of dried plant specimens mounted on sheets?**

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

**Q1275: Which algae shows haplontic life cycle?**

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

**Q1276: Which tissue is composed of dead cells and provides mechanical support?**

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

**Q1277: Which plastid stores starch?**

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

**Q1278: Which nitrogenous base is present only in RNA?**

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

**Q1279: Which stage of meiosis shows separation of homologous chromosomes?**

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

**Q1280: Which force mainly causes ascent of sap?**

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

**Q1281: Which micronutrient is involved in photolysis of water?**

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

**Q1282: Which pathway reduces photorespiration by spatial separation?**

- A) C<sub>3</sub> pathway
- B) C<sub>4</sub> pathway
- C) CAM pathway
- D) Calvin cycle

**Q1283: Which respiratory substrate gives respiratory quotient equal to 1?**

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

**Q1284: Which hormone induces stomatal closure?**

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

**Q1285: Which part of ovule persists as micropyle in seed?**

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

**Q1286: Which breeding method induces variation using radiation?**

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

**Q1287: Which microorganism is used in production of vinegar?**

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

**Q1288: Which technique is used to amplify DNA segments?**

- A) ELISA
- B) PCR
- C) Southern blotting
- D) Chromatography

**Q1289: Which dispersion pattern shows individuals evenly spaced?**

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

**Q1290: Which ecological pyramid is always upright?**

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

**Q1291: Which biome is characterised by permanently frozen subsoil?**

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

**Q1292: Which gas is responsible for ozone layer depletion?**

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

**Q1293: Which classification system is based on evolutionary relationships?**

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

**Q1294: Which algae is a source of agar?**

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

**Q1295: Which tissue lies just inside endodermis?**

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

**Q1296: Which plastid imparts colour to ripe fruits?**

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

**Q1297: Which nitrogenous base pairs with adenine in DNA?**

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

**Q1298: Which stage of mitosis shows alignment of chromosomes at equatorial plate?**

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

**Q1299: Which force contributes least to ascent of sap in tall trees?**

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

**Q1300: Which international agreement aims at conservation of wetlands?**

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