

Quiz: Botany set 5

Q201: Which taxonomic rank is always written in italics in scientific naming?

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

Q202: Which group of algae lacks flagellated reproductive stages?

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

Q203: Which plant group is known as amphibians of plant kingdom?

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

Q204: Which floral part encloses the ovules?

- A) Stamen
- B) Carpel
- C) Petal
- D) Sepal

Q205: Which tissue is responsible for formation of cork?

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

Q206: Middle lamella of plant cell wall is rich in:

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

Q207: Which cell organelle contains its own DNA?

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

Q208: Which carbohydrate is non-reducing?

- A) Glucose
- B) Fructose
- C) Sucrose

D) Maltose

Q209: Which checkpoint controls transition from G1 to S phase?

- A) DNA damage checkpoint
- B) Spindle checkpoint
- C) Restriction point
- D) Cyclin checkpoint

Q210: Bulk flow of water in plants occurs through:

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

Q211: Which nutrient is part of amino acids?

- A) Phosphorus
- B) Sulphur
- C) Nitrogen
- D) Magnesium

Q212: Which pigment acts as accessory pigment?

- A) Chlorophyll a
- B) Chlorophyll b
- C) Phaeophytin
- D) Cytochrome

Q213: Calvin cycle requires:

- A) ATP and NADPH
- B) ATP only
- C) NADPH only
- D) Light energy directly

Q214: Which respiratory substrate gives RQ less than 1?

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

Q215: Which hormone promotes lateral root formation?

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

Q216: Antipodal cells are usually:

- A) Persistent
- B) Absent
- C) Short-lived
- D) Binucleate

Q217: Which crop is improved through biofortification?

- A) Golden rice
- B) Bt cotton
- C) Flavr Savr tomato
- D) Hybrid maize

Q218: Which microorganism is used for production of butyric acid?

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

Q219: Which gene is used as selectable marker in animals?

- A) ampR
- B) cry
- C) neo
- D) lacZ

Q220: Population growth rate is represented by:

- A) K
- B) r
- C) N
- D) t

Q221: Detritus food chain begins with:

- A) Producers
- B) Consumers
- C) Dead organic matter
- D) Herbivores

Q222: Which species diversity includes species richness and evenness?

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

Q223: Which pollutant is responsible for Minamata disease?

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

Q224: Which book contains description of plants of a region?

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

Q225: Which algae is used as fodder?

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

Q226: Which plant shows siphonogamy?

- A) Cycas
- B) Pinus
- C) Ginkgo
- D) Marchantia

Q227: Which tissue is responsible for ascent of sap?

- A) Phloem
- B) Xylem
- C) Cambium
- D) Cortex

Q228: Which plastid stores proteins?

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

Q229: Which bond links nucleotides?

- A) Peptide bond
- B) Hydrogen bond
- C) Phosphodiester bond
- D) Glycosidic bond

Q230: Which stage of meiosis is reductional division?

- A) Meiosis I
- B) Meiosis II
- C) Mitosis
- D) Anaphase II

Q231: Water loss in liquid form from leaf margins is called:

- A) Transpiration
- B) Evaporation
- C) Guttation
- D) Diffusion

Q232: Which element is required for nitrogen fixation?

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

Q233: Which pathway prevents photorespiration?

- A) C3 pathway
- B) C4 pathway
- C) CAM pathway
- D) Glycolysis

Q234: Which respiratory pathway occurs in cytosol?

- A) Krebs cycle
- B) Electron transport
- C) Glycolysis
- D) Oxidative phosphorylation

Q235: Which hormone is known as stress hormone?

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

Q236: Which structure forms microspores?

- A) Anther
- B) Ovary
- C) Ovule
- D) Stigma

Q237: Which breeding method avoids inbreeding depression?

- A) Inbreeding
- B) Outcrossing
- C) Pureline selection
- D) Selfing

Q238: Which microorganism produces ethanol?

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

Q239: Which technique separates DNA fragments?

- A) PCR
- B) ELISA
- C) Gel electrophoresis
- D) Blotting

Q240: Population density can be expressed as:

- A) Number per unit area
- B) Biomass only
- C) Energy flow
- D) Carrying capacity

Q241: Primary productivity depends upon:

- A) Consumers
- B) Producers
- C) Decomposers
- D) Herbivores

Q242: Which biodiversity level refers to variation within species?

- A) Species diversity
- B) Ecosystem diversity
- C) Genetic diversity
- D) Community diversity

Q243: Which gas is responsible for photochemical smog?

- A) CO
- B) NO₂
- C) SO₂
- D) CO₂

Q244: Which publication gives information on all known plants?

- A) Flora
- B) Manual
- C) Monograph
- D) Index Kewensis

Q245: Which algae shows diplontic life cycle?

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

Q246: Which tissue forms lateral roots?

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

Q247: Which plastid gives colour to fruits and flowers?

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

Q248: Which nitrogenous base pairs with adenine in DNA?

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

Q249: Which stage of mitosis shows chromosome alignment at equator?

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

Q250: Which element activates enzyme nitrate reductase?

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