

## **Quiz: Botany set 16**

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**Q751: Which taxonomic category is placed immediately below class?**

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

**Q752: Which algal group lacks flagellated stages in its life cycle?**

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

**Q753: Which plant group is commonly referred to as amphibians of plant kingdom?**

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

**Q754: The edible part of maize seed is mainly:**

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

**Q755: Which tissue is responsible for secondary growth in dicot stem?**

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

**Q756: Which wall material is rich in lignin?**

- A) Primary wall
- B) Secondary wall
- C) Middle lamella
- D) Plasma membrane

**Q757: Which cell organelle is known as suicide bag of the cell?**

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

**Q758: Which biomolecule stores genetic information?**

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

D) Nucleic acids

**Q759: Which phase of mitosis involves attachment of spindle fibres to kinetochores?**

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

**Q760: Movement of water along cell walls and intercellular spaces is called:**

- A) Symplast pathway
- B) Apoplast pathway
- C) Osmosis
- D) Active transport

**Q761: Which mineral nutrient is a component of chlorophyll?**

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

**Q762: Which pigment is the reaction centre of photosystem I?**

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

**Q763: Which compound acts as primary CO<sub>2</sub> acceptor in C<sub>4</sub> plants?**

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

**Q764: Which respiratory process results in formation of water?**

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

**Q765: Which plant hormone is involved in apical dominance?**

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

**Q766: Which layer of anther wall helps in dehiscence?**

- A) Epidermis
- B) Endothecium
- C) Tapetum
- D) Middle layers

**Q767: Which breeding method involves crossing of genetically dissimilar parents?**

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

**Q768: Which microorganism is used for production of butyric acid?**

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

**Q769: Which enzyme joins Okazaki fragments during DNA replication?**

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

**Q770: Which population parameter refers to arrival of new individuals?**

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

**Q771: Which trophic level receives energy directly from producers?**

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

**Q772: Which biodiversity measure compares diversity between two habitats?**

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

**Q773: Which pollutant causes Minamata disease?**

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

**Q774: Which taxonomic aid consists of dried, pressed plant specimens?**

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

**Q775: Which algae shows diplontic life cycle?**

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

**Q776: Which tissue consists of dead cells with thick lignified walls?**

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

**Q777: Which plastid stores proteins?**

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

**Q778: Which nitrogenous base is absent in DNA?**

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

**Q779: Which stage of meiosis involves separation of homologous chromosomes?**

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

**Q780: Which force mainly causes ascent of sap in tall trees?**

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

**Q781: Which micronutrient is involved in photolysis of water?**

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

**Q782: 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

**Q783: Which respiratory substrate gives RQ equal to 1?**

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

**Q784: Which hormone promotes fruit ripening?**

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

**Q785: Which part of ovule forms seed coat?**

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

**Q786: Which breeding method is used to introduce a single desirable gene?**

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

**Q787: Which microorganism is used in production of vinegar?**

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

**Q788: Which technique is used to amplify DNA segments?**

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

**Q789: Which dispersion pattern shows individuals evenly spaced?**

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

**Q790: Which ecological pyramid is always upright?**

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

**Q791: Which biome is characterised by coniferous forests and cold climate?**

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

**Q792: Which gas contributes most to global warming?**

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

**Q793: Which system of classification is based on evolutionary relationships?**

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

**Q794: Which algae is used as single cell protein?**

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

**Q795: Which tissue lies between xylem and phloem in dicot stem?**

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

**Q796: Which plastid imparts colour to flowers?**

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

**Q797: Which nitrogenous base pairs with adenine in RNA?**

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

**Q798: Which stage of mitosis shows alignment of chromosomes at equatorial plate?**

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

**Q799: Which force explains ascent of sap according to cohesion-tension theory?**

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

**Q800: Which international agreement aims to protect the ozone layer?**

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