

## **Quiz: Botany set 2**

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**Q51: Which taxonomic category contains organisms with maximum similarity?**

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

**Q52: Which of the following algae is haploid?**

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

**Q53: Which plant group shows well-differentiated vascular tissues but lacks seeds?**

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

**Q54: The edible part of pea is:**

- A) Pericarp
- B) Endosperm
- C) Cotyledon
- D) Thalamus

**Q55: Which tissue is dead at maturity?**

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

**Q56: Bulliform cells are associated with:**

- A) Dicot stem
- B) Dicot leaf
- C) Monocot leaf
- D) Root

**Q57: Which cell organelle is known as suicidal bag?**

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

**Q58: Which biomolecule acts as genetic material?**

- A) Protein
- B) Carbohydrate
- C) DNA

D) Lipid

**Q59: Which stage of mitosis is longest?**

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

**Q60: Water absorption through cell membranes is called:**

- A) Diffusion
- B) Facilitated diffusion
- C) Osmosis
- D) Active transport

**Q61: Which mineral is a constituent of ferredoxin?**

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

**Q62: Which pigment is absent in green plants?**

- A) Chlorophyll a
- B) Chlorophyll b
- C) Carotene
- D) Phycobilin

**Q63: Which process releases CO<sub>2</sub> in plants?**

- A) Photosynthesis
- B) Respiration
- C) Transpiration
- D) Diffusion

**Q64: Which plant hormone is gaseous in nature?**

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

**Q65: Endosperm development in coconut is:**

- A) Cellular
- B) Nuclear
- C) Helobial
- D) Solid

**Q66: Pureline selection is effective in:**

- A) Cross-pollinated crops
- B) Self-pollinated crops
- C) Vegetatively propagated crops
- D) Hybrid crops

**Q67: Which microbe is used for biogas production?**

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

**Q68: Ti plasmid is obtained from:**

- A) Rhizobium
- B) Agrobacterium tumefaciens
- C) E. coli
- D) Bacillus

**Q69: Exponential population growth is represented by:**

- A) J-shaped curve
- B) S-shaped curve
- C) Linear curve
- D) Bell-shaped curve

**Q70: Which trophic level has maximum energy?**

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

**Q71: Sacred groves help in:**

- A) Soil erosion
- B) Biodiversity conservation
- C) Urbanisation
- D) Deforestation

**Q72: Which gas causes acid rain?**

- A) CO<sub>2</sub>
- B) SO<sub>2</sub>
- C) O<sub>2</sub>
- D) N<sub>2</sub>

**Q73: Herbarium is a collection of:**

- A) Live plants
- B) Preserved plant specimens
- C) Seeds
- D) Fossils

**Q74: Which algae is used as protein source?**

- A) Spirogyra
- B) Chlorella
- C) Ulothrix
- D) Volvox

**Q75: Which plant shows heterospory?**

- A) Funaria
- B) Marchantia
- C) Selaginella
- D) Riccia

**Q76: Epiblema is also called:**

- A) Pericycle
- B) Cortex
- C) Piliferous layer
- D) Endodermis

**Q77: Cristae are present in:**

- A) Chloroplast
- B) Mitochondria
- C) Ribosome
- D) Nucleus

**Q78: Which bond stabilizes protein structure?**

- A) Glycosidic
- B) Peptide
- C) Phosphodiester
- D) Ester

**Q79: Crossing over occurs during:**

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

**Q80: Translocation of organic solutes occurs through:**

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

**Q81: Which element activates many enzymes?**

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

**Q82: Which reaction occurs in stroma?**

- A) Photolysis
- B) Electron transport
- C) Calvin cycle
- D) Chemiosmosis

**Q83: Which pathway produces maximum ATP?**

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

**Q84: Which hormone promotes bolting?**

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

**Q85: Synergids are part of:**

- A) Embryo
- B) Endosperm
- C) Female gametophyte
- D) Male gametophyte

**Q86: Which breeding improves nutritional quality?**

- A) Hybrid breeding
- B) Mutation breeding
- C) Biofortification
- D) Outbreeding

**Q87: Which organism produces citric acid?**

- A) Aspergillus niger
- B) Rhizobium
- C) Penicillium
- D) Lactobacillus

**Q88: Which technique amplifies DNA?**

- A) ELISA
- B) PCR
- C) Blotting
- D) Hybridisation

**Q89: Mortality refers to:**

- A) Birth rate
- B) Death rate
- C) Immigration
- D) Emigration

**Q90: Which ecosystem has highest productivity?**

- A) Desert
- B) Grassland
- C) Coral reef
- D) Forest

**Q91: Endemic species are:**

- A) Cosmopolitan
- B) Restricted to a region
- C) Migratory
- D) Introduced

**Q92: Which gas causes photochemical smog?**

- A) CO
- B) NO<sub>2</sub>
- C) SO<sub>2</sub>
- D) CH<sub>4</sub>

**Q93: Binomial nomenclature was proposed by:**

- A) Darwin
- B) Linnaeus
- C) Whittaker
- D) Mayr

**Q94: Which algae has diplontic life cycle?**

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

**Q95: Which plant is insectivorous?**

- A) Cuscuta
- B) Nepenthes
- C) Lathyrus
- D) Opuntia

**Q96: Vascular cambium is responsible for:**

- A) Primary growth
- B) Secondary growth
- C) Apical growth
- D) Elongation

**Q97: Plastids are absent in:**

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

**Q98: Which sugar is non-reducing?**

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

**Q99: Chiasmata are visible during:**

- A) Pachytene
- B) Diplotene
- C) Diakinesis
- D) Metaphase I

**Q100: Which ion maintains turgidity of cells?**

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