

Quiz: Botany set 12

Q551: Which taxonomic category contains organisms with maximum number of similarities?

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

Q552: Which algal class has cell wall made of cellulose and pectin?

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

Q553: Which plant group is completely dependent on water for fertilisation?

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

Q554: The edible part of coconut is:

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

Q555: Which tissue forms lateral roots in dicot root?

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

Q556: Which wall layer is common between two adjacent plant cells?

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

Q557: Which organelle contains its own circular DNA and ribosomes?

- A) Golgi apparatus
- B) Mitochondria
- C) Endoplasmic reticulum
- D) Lysosome

Q558: Which biomolecule acts as enzymes in living systems?

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

D) Nucleic acids

Q559: Which phase of cell cycle is longest?

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

Q560: Movement of molecules from region of higher concentration to lower concentration is:

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

Q561: Which element is a constituent of chlorophyll molecule?

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

Q562: Which photosystem is associated with photolysis of water?

- A) Photosystem I
- B) Photosystem II
- C) Both PS I and PS II
- D) Neither PS I nor PS II

Q563: Which compound is the first stable product of Calvin cycle?

- A) RuBP
- B) OAA
- C) 3-phosphoglyceric acid
- D) Malate

Q564: Which respiratory process occurs in cytosol?

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

Q565: Which plant hormone promotes cell division?

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

Q566: Which structure of ovule allows entry of pollen tube?

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

Q567: Which breeding method is most suitable for vegetatively propagated crops?

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

Q568: Which microorganism is used for production of biogas?

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

Q569: Which enzyme is used to join DNA fragments in recombinant DNA technology?

- A) DNA polymerase
- B) Restriction endonuclease
- C) DNA ligase
- D) Reverse transcriptase

Q570: Which parameter represents increase in population due to births?

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

Q571: Which trophic level occupies the highest position in food chain?

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

Q572: Which biodiversity refers to variation within species?

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

Q573: Which pollutant causes eutrophication of water bodies?

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

Q574: Which taxonomic aid provides information on plants of a region with keys?

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

Q575: Which algae shows diplontic life cycle?

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

Q576: Which tissue provides mechanical support and flexibility?

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

Q577: Which plastid stores starch grains?

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

Q578: Which nitrogenous base is present only in RNA?

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

Q579: Which stage of meiosis shows crossing over?

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

Q580: Which force is responsible for ascent of sap according to cohesion-tension theory?

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

Q581: Which micronutrient activates enzyme nitrate reductase?

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

Q582: Which pathway reduces photorespiration by spatial separation?

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

Q583: Which respiratory substrate gives RQ less than 1?

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

Q584: Which hormone promotes leaf senescence?

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

Q585: Which part of ovule develops into seed coat?

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

Q586: Which breeding method is used to transfer disease resistance gene?

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

Q587: Which microorganism is used in production of antibiotics?

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

Q588: Which technique is used to amplify specific DNA segment?

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

Q589: Which dispersion pattern shows individuals aggregated in groups?

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

Q590: Which ecological pyramid is always upright?

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

Q591: Which biome is characterised by permanently frozen subsoil?

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

Q592: Which gas is responsible for depletion of ozone layer?

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

Q593: Which classification system is based on evolutionary relationships?

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

Q594: Which algae is used as source of agar?

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

Q595: Which tissue lies between epidermis and vascular tissue?

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

Q596: Which plastid is responsible for colour of fruits?

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

Q597: Which nitrogenous base pairs with guanine?

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

Q598: Which stage of mitosis shows separation of sister chromatids?

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

Q599: Which force mainly causes upward movement of water in tall trees?

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

Q600: Which international agreement aims at conservation of wetlands?

- A) Montreal Protocol
- B) Kyoto Protocol
- C) Ramsar Convention
- D) Stockholm Convention