Examrace

Competitive Exams: Botany MCQs (Practice_Test 6 of 104)

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- 1. In which one of the following species of Lycopothum are the xylem and phloem nearly uniformly intermixed?
 - a. L. Cernuum
 - b. L. Pucidulum
 - c. L. Selago
 - d. L annotinum
- 2. Mohological1y, the spice-yielding part of turmeric is
 - a. Seed
 - b. Root
 - c. Dried fruit
 - d. Rhizome
- 3. The following enzymes participate in the initial CO₂ fixation through Calvin cycle:
 - a. RUBISCO
 - b. Trios phosphate dehydrogenate
 - c. Phosphglyceric kinas

The correct sequence in which these enzymes participation in CO2 fixation is

- a. 1,3, 2
- b. 2,3, 1
- c. 1,2, 3
- d. 3,2, 1
- 4. C4 plants are more efficient in photosynthesis than C3 plants because of
 - a. Higher leaf area
 - b. The presence of a large number of chloroplasts
 - c. The presence of a thin cuticle on the leaf surface

- d. Lower photorespiration
- 5. Chemosynthesis is BEST defined as
 - a. Synthesis of food by chemical means
 - b. Synthesis of a chemical compound
 - c. Synthesis of food with energy obtained in a chemical reaction
 - d. Absorption of food material in various parts of the body
- 6. Oxygen evolution takes place during photosynthesis in green plants but not in bacterial photosynthesis, because
 - a. Bacteria are prokaryotic and green plants are eukaryotic
 - b. Only photo system I is present in bacterial photosynthesis
 - c. Bacterial cell wall composition is different from green plant cell wall
 - d. Rate of O2consumption in bacteria is higher than that in green plants
- 7. UV or X-ray radiation is NOT suitable for photosynthesis in green plants because such a radiation
 - a. Is not visible
 - b. Is not absorbed by chlorophyll
 - c. Causes ionization of chlorophyll
 - d. Leads to an increase in rotational and vibration energy of chlorophyll
- 8. Consider the following events:
 - a. Excitation of chlorophyll
 - b. light absorption
 - c. Transfer of electron
 - d. Synthesis of ATP

The correct sequence of these events in photosynthesis is:

- a. 1,2, 4,3
- b. 2,1, 4,3
- c. 2,1, 3,4
- d. 1,2, 3,4
- 9. Match List I (Physiological events) with List II (Name of plants) and select the correct answer:

List-I	List-II
A. C3 pathway of CO2 fixation	1. Bryophyllum sp.
B. C4 pathway of CO2 fixation	2. Zea mays
C. CAM pathway of CO2 fixation	3. Triticum aestivum
D. Guttation	4. Lycopeticon

ABCD

a. 2341

- b. 2314
- c. 3 2 4 1
- d. 3 2 1 4
- 10. RuBP carboxyl's is a less efficient enzyme for CO2 fixation in photosynthesis than PEP carbonyls because
 - a. RuBP is less predominant than PEP in a mesophyll cell
 - b. RuBP is a 4-carbon sugar phosphate while PEP is a phosphorylated 3-carbon organic acid
 - c. Km value of RuBP carboxyl's for CO2 is higher than that of PEP carboxyl's
 - d. the molecular weight of RuBP carboxyl's is larger than that of PEP carboxyl's
- 11. A copper containing protein linking electron transfer between PS II and PS I is
 - a. Cytochrome a3
 - b. Cytochrome b
 - c. Plastocyanin
 - d. Plastoquinone
- 12. Which one of the following cofactors s NOT involved in the pyruvate dehydrogenate complex?
 - a. Pyridoxal phosphate
 - b. Thiamine Pyrophosphate
 - c. Lipoid acid

- d. Coenzyme A
- 13. The rate of respiration undergoes a sharp rise followed by a when certain fruits ripen. This phenomenon is known as
 - a. Climatic rise
 - b. Climatic fall
 - c. Climacteric rise
 - d. Anaerobiosis
- 14. The citric acid cycle
 - a. Contains intermediates for amino acid synthesis
 - b. Generates fewer molecules of ATP than glycol sis
 - c. Is an anaerobic process
 - d. Is the major anabolic pathway for glucose synthesis
- 15. During aerobic respiration, all the ATPs are synthesized as a result of
 - a. Oxidative phosphorylation
 - b. Oxidative and substrate level phosphorylation
 - c. Substrate level phosphorylation
 - d. Oxidative and phosphorylation

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