

Test-4 (Code-A)

Decomposition is a process in which the detritus is degraded into simpler substances by microbes.

Statement II :

Decomposition is faster if the detritus is rich in lignin and chitin

In the light of the above statements, choose the correct answer from the options given below :

- (1) **Statement I** is correct but **Statement II** is incorrect
- (2) **Statement I** is incorrect but **Statement II** is correct
- (3) Both **Statement I** and **Statement II** are correct
- (4) Both **Statement I** and **Statement II** are incorrect

Sol. Answer (1)

Explanation: Decomposition is the process of conversion of complex organic matter into simple inorganic matter. Under different environmental conditions, the rate of decomposition may vary. If detritus is rich in lignin and chitin, the rate of decomposition is low and for nitrogen rich detritus rate of decomposition is fast.

- 112.** Habitat loss and fragmentation, over exploitation, alien species invasion and co-extinction are causes for:

- (1) Biodiversity loss
- (2) Natality
- (3) Population explosion
- (4) Competition

Sol. Answer (1)

Explanation: The evil quartet for biodiversity loss are

- 1. Habitat loss and fragmentation
- 2. Over exploitation
- 3. Alien species invasion
- 4. Co-extinction

- 113.** Hydrocolloid carrageen is obtained from:

- (1) Rhodophyceae only
- (2) Phaeophyceae only
- (3) Chlorophyceae and Phaeophyceae
- (4) Phaeophyceae and Rhodophyceae

Sol. Answer (1)

Explanation: Hydrocolloid carrageen is obtained from red algae.

- 114.** "Girdling Experiment" was performed by Plant Physiologists to identify the plant tissue through which:

- (1) for both water and food transportation
- (2) osmosis is observed
- (3) water is transported
- (4) food is transported

Sol. Answer (4)

Girdling experiment demonstrate that phloem is responsible for translocation of food because the phloem is present outside the xylem, so when a ring of bark is removed from a woody plant, the woody xylem part remains intact, which causes the water and the nutrients to reach the least.

- 115.** The flowers are Zygomorphic in:

- (a) Mustard
- (b) Gulmohar
- (c) Cassia
- (d) Datura
- (e) Chilly

Choose the correct answer from the options given

- (1) (d), (e) Only
- (2) (c), (d), (e) Only
- (3) (a), (b), (c) Only
- (4) (b), (c) Only

Sol. Answer (4)

Examples of zygomorphic flowers :

Gulmohar and Cassia

Examples of Actinomorphic flowers :

Mustard, Datura and Chilly

- 116.** Which one of the following is not true regarding the release of energy during ATP synthesis through chemiosmosis ? It involves :

- (1) Movement of protons across the membrane to the stroma
- (2) Reduction of NADP to NADPH₂ on the stroma side of the membrane
- (3) Breakdown of proton gradient
- (4) Breakdown of electron gradient

Sol. Answer (4)

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