

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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1. Understanding the eBook Upcpmt 2013 Solved Questions Paper
 - The Rise of Digital Reading Upcpmt 2013 Solved Questions Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Upcpmt 2013 Solved Questions Paper
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Upcpmt 2013 Solved Questions Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Upcpmt 2013 Solved Questions Paper
 - Personalized Recommendations
 - Upcpmt 2013 Solved Questions Paper User Reviews and Ratings
 - Upcpmt 2013 Solved Questions Paper and Bestseller Lists
5. Accessing Upcpmt 2013 Solved Questions Paper Free and Paid eBooks
 - Upcpmt 2013 Solved Questions Paper Public Domain eBooks
 - Upcpmt 2013 Solved Questions Paper eBook Subscription Services

- Upcpmt 2013 Solved Questions Paper Budget-Friendly Options
- 6. Navigating Upcpmt 2013 Solved Questions Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Upcpmt 2013 Solved Questions Paper Compatibility with Devices
 - Upcpmt 2013 Solved Questions Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Upcpmt 2013 Solved Questions Paper
 - Highlighting and Note-Taking Upcpmt 2013 Solved Questions Paper
 - Interactive Elements Upcpmt 2013 Solved Questions Paper
- 8. Staying Engaged with Upcpmt 2013 Solved Questions Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Upcpmt 2013 Solved Questions Paper
- 9. Balancing eBooks and Physical Books Upcpmt 2013 Solved Questions Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Upcpmt 2013 Solved Questions Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Upcpmt 2013 Solved Questions Paper
 - Setting Reading Goals Upcpmt 2013 Solved Questions Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Upcpmt 2013 Solved Questions Paper
 - Fact-Checking eBook Content of Upcpmt 2013 Solved Questions Paper
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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