

SECTION - I

BOTANY

Q. 1. Select and write the most appropriate answer from the given alternatives for each sub-question :

[7]

- (i) The pattern of ecosystem in which density and distribution of species vary along a horizontal gradient is _____.
 (a) zonation (b) stratification
 (c) ecological niche (d) speciation
- (ii) The enzyme affecting the shelf life of flavr savr tomato is _____.
 (a) galactosidase (b) trans acetylase
 (c) permease (d) polygalactouranase
- (iii) In nomenclature of RENs (restriction endo-nucleases) Hind III, III stands for _____.
 (a) genus name (b) species name
 (c) order of discovery (d) strain of the organism
- (iv) *Rhizobium phaseoli* fixes atmospheric nitrogen symbiotically in _____.
 (a) pea (b) bean (c) jowar (d) maize
- (v) In nucleotide, the nitrogen base is attached to carbon no. 1 of sugar by _____ bond.
 (a) glycosidic (b) hydrogen (c) phosphodiester (d) phosphate
- (vi) During biogas production microorganism used to bring about the anaerobic digestion is _____.
 (a) *Pseudomonas* (b) *Rhizopus*
 (c) *Methanococcus* (d) *Methanobacillus*
- (vii) A wheat variety resistant to hill bunt disease is _____.
 (a) Pusa Shubhra (b) Himgiri
 (c) Pusa Gaurav (d) Pusa Sawani

Q.2. (A) Answer in 'ONE' sentence each :

(6) [12]

- (1) Define the term 'leaching'.
- (2) Give reason – 'Buttermilk is used in the dough of dhokla.'
- (3) What is palindrome in DNA ?
- (4) What is biomagnification ?
- (5) Give application of mutation breeding.
- (6) What will be the length of eukaryotic DNA segment having 10 pairs of nucleotides ?

Q.2. (B) Draw a neat labelled diagram of the hair pin model of t-RNA.

(2)

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Yicheng Fang



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1. Understanding the eBook Hsc 2013 Biology Question Paper
 - The Rise of Digital Reading Hsc 2013 Biology Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc 2013 Biology Question 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 Hsc 2013 Biology Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc 2013 Biology Question Paper

- Personalized Recommendations
- Hsc 2013 Biology Question Paper User Reviews and Ratings
- Hsc 2013 Biology Question Paper and Bestseller Lists
- 5. Accessing Hsc 2013 Biology Question Paper Free and Paid eBooks
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 - Hsc 2013 Biology Question Paper eBook Subscription Services
 - Hsc 2013 Biology Question Paper Budget-Friendly Options
- 6. Navigating Hsc 2013 Biology Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Hsc 2013 Biology Question Paper Compatibility with Devices
 - Hsc 2013 Biology Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsc 2013 Biology Question Paper
 - Highlighting and Note-Taking Hsc 2013 Biology Question Paper
 - Interactive Elements Hsc 2013 Biology Question Paper
- 8. Staying Engaged with Hsc 2013 Biology Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsc 2013 Biology Question Paper
- 9. Balancing eBooks and Physical Books Hsc 2013 Biology Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc 2013 Biology Question Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hsc 2013 Biology Question Paper
 - Setting Reading Goals Hsc 2013 Biology Question Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hsc 2013 Biology Question Paper

- Fact-Checking eBook Content of Hsc 2013 Biology Question 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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