

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]

- Define the term 'leaching'.
- Give reason – 'Buttermilk is used in the dough of dhokla.'
- What is palindrome in DNA ?
- What is biomagnification ?
- Give application of mutation breeding.
- 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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L Reisser



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Grade Biology Paper For March 2014 Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Grade Biology Paper For March 2014**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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