

Time : 3 hrs.]**Note :** (1) All questions are compulsory.

(2) Answers to the question in Section - I and Section - II should be written in TWO separate answer books.

(3) Questions from Section - I attempted in the answer book of Section - II and vice-versa will not be assessed / not given any credit.

(4) Draw neat and well labelled diagrams wherever necessary.

(5) Figures to the right indicate full marks.

(6) Answer to every new question must be started on a new page.

SECTION - I**BOTANY****Q. 1. Select and write the most appropriate answer from the given alternatives for each sub-question :****[7]**

- (i) A cross used to verify the unknown genotype of F₁ hybrid is a _____ cross.
 (a) test (b) back (c) dihybrid (d) monohybrid
- (ii) Appearance of new combinations in F₂ generation in a dihybrid cross proves the law of _____.
 (a) dominance (b) segregation
 (c) independent assortment (d) purity of gametes
- (iii) A fine powder of recycled modified plastic is known as _____.
 (a) polyblend (b) polythene (c) polyester (d) polymer
- (iv) The partially decomposed organic matter is formed by a process called _____.
 (a) fragmentation (b) humification (c) mineralization (d) leaching
- (v) Transfer of genetic material into a bacterial cell through a viral vector is known as _____.
 (a) transformation (b) transduction (c) transfection (d) translation
- (vi) If the number of chromosomes in an endosperm cell is 27, what will be the chromosome number in the definitive nucleus?
 (a) 9 (b) 18 (c) 27 (d) 36
- (vii) Lever mechanism of pollination is observed in _____.
 (a) Salvia (b) Jasmine (c) Bougainvillea (d) Butea

Q. 2.(A) Answer in 'one' sentence each :**(6) [12]**

- (i) A pea plant pure for yellow seed colour is crossed with a pea plant pure for green seed colour. In F₁ generation, all pea plants were with yellow seeds. Which law of Mendel is applicable?
- (ii) Name the enzyme responsible for delay in ripening of tomato fruit.
- (iii) Which are the bacteria responsible for converting organic acids into methane?
- (iv) Name the high yielding semi-dwarf varieties of wheat selected and introduced in India in 1963.
- (v) 'Formation of primary endosperm nucleus is called triple fusion'. Give reason.
- (vi) Mention any 'two' ecological services for the benefit of mankind.

Q. 2.(B) Sketch and label 'tubular tower fermenter'.**(2)**

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 - The Rise of Digital Reading Hsc Science 2014 2015 In
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Science 2014 2015 In
 - 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 Science 2014 2015 In
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Science 2014 2015 In
 - Personalized Recommendations
 - Hsc Science 2014 2015 In User Reviews and Ratings
 - Hsc Science 2014 2015 In and Bestseller Lists

5. Accessing Hsc Science 2014 2015 In Free and Paid eBooks
 - Hsc Science 2014 2015 In Public Domain eBooks
 - Hsc Science 2014 2015 In eBook Subscription Services
 - Hsc Science 2014 2015 In Budget-Friendly Options
6. Navigating Hsc Science 2014 2015 In eBook Formats
 - ePub, PDF, MOBI, and More
 - Hsc Science 2014 2015 In Compatibility with Devices
 - Hsc Science 2014 2015 In Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsc Science 2014 2015 In
 - Highlighting and Note-Taking Hsc Science 2014 2015 In
 - Interactive Elements Hsc Science 2014 2015 In
8. Staying Engaged with Hsc Science 2014 2015 In
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsc Science 2014 2015 In
9. Balancing eBooks and Physical Books Hsc Science 2014 2015 In
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc Science 2014 2015 In
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hsc Science 2014 2015 In
 - Setting Reading Goals Hsc Science 2014 2015 In
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hsc Science 2014 2015 In
 - Fact-Checking eBook Content of Hsc Science 2014 2015 In
 - 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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