

Time : 2 Hrs.

Max. Marks : 40

- Q. 1:** Select and write the most appropriate answer from the given alternatives in each sub-question. [8]
- (i) Which of the following is an endangered species, in India? (1)
 (a) *Rauwolfia serpentina* (b) *Zizyphus jujube*
 (c) *Delonix regia* (d) *Mangifera indica*
- (ii) Which of the following plants belongs to family "Meliaceae" ? (1)
 (a) *Adhatoda vasica* (b) *Ocimum sanctum*
 (c) *Asparagus racemosus* (d) *Azadirachta indica*
- (iii) One of the following plants does not follow HSK pathway. (1)
 (a) Coconut (b) Maize (c) Sugarcane (d) *Amaranthus*
- (iv) The correct sequence from periphery to the centre of angiospermic ovule is (1)
 (a) Integuments, nucellus, embryo sac, secondary nucleus
 (b) Integuments, embryo sac, secondary nucleus, nucellus
 (c) Integuments, embryo sac, nucellus, secondary nucleus
 (d) Integuments, secondary nucleus, embryo sac, nucellus
- (v) Which type of natural resource the water is ? (1)
 (a) Exhaustible renewable (b) Exhaustible non-renewable
 (c) Inexhaustible (d) Artificial non-renewable
- (vi) The process of casing is related with (1)
 (a) Tissue culture (b) Anther culture
 (c) Mushroom culture (d) Silviculture
- (vii) Acetylation is connecting link between (1)
 (a) Glycolysis and ETS (b) Glycolysis and Krebs cycle
 (c) Glycolysis and Calvin's cycle (d) Krebs cycle and ETS
- (viii) Bryophyllum reproduces vegetatively by means of (1)
 (a) Seed (b) Stem (c) Leaf (d) Root
- Q. 2 (A)** Explain the process of plasmolysis. (2) [8]
 OR
 Distinguish between self pollination and cross pollination.
- (B)** Write the medicinal uses of *Ocimum sanctum* and *Adhatoda vasica*. (2)
 OR
 Write a note on somatic hybridization.
- (C)** Explain the phases of plant growth curve. (2)
(D) Sketch and label - structure of pollen grain. (2)
- Q. 3 (A)** Sketch and label - ultra structure of mitochondrion. (2) [8]
(B) Suggest measures for the protection of endangered species. (2)
 OR
 Describe the hazards of deforestation.
- (C)** Write a note on Biopatent. (2)
(D) Give the importance of mushroom cultivation. (2)
 OR
 Give adaptations for anemophily.
- Q. 4** Attempt any TWO of the following : [8]
(A) Explain the biosynthetic phase of photosynthesis. (4)
(B) Give physiological effects of auxins and abscisic acid. (4)
(C) Describe the structure of root hair. Explain the absorption and movement of water from soil to xylem of root. (4)
- Q. 5** Describe the structure and replication of eukaryotic DNA. (8) [8]
 OR
(A) Describe the development of embryo in Angiosperms. (4)
(B) Explain Krebs cycle. (4)

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1. Understanding the eBook Hsc Science Biology 1chapter
 - The Rise of Digital Reading Hsc Science Biology 1chapter
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Science Biology 1chapter
 - 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 Biology 1chapter
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Science Biology 1chapter
 - Personalized Recommendations
 - Hsc Science Biology 1chapter User Reviews and Ratings
 - Hsc Science Biology 1chapter and Bestseller Lists
5. Accessing Hsc Science Biology 1chapter Free and Paid eBooks
 - Hsc Science Biology 1chapter Public Domain eBooks
 - Hsc Science Biology 1chapter eBook Subscription Services

- Hsc Science Biology 1chapter Budget-Friendly Options
- 6. Navigating Hsc Science Biology 1chapter eBook Formats
 - ePub, PDF, MOBI, and More
 - Hsc Science Biology 1chapter Compatibility with Devices
 - Hsc Science Biology 1chapter Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsc Science Biology 1chapter
 - Highlighting and Note-Taking Hsc Science Biology 1chapter
 - Interactive Elements Hsc Science Biology 1chapter
- 8. Staying Engaged with Hsc Science Biology 1chapter
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsc Science Biology 1chapter
- 9. Balancing eBooks and Physical Books Hsc Science Biology 1chapter
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc Science Biology 1chapter
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hsc Science Biology 1chapter
 - Setting Reading Goals Hsc Science Biology 1chapter
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hsc Science Biology 1chapter
 - Fact-Checking eBook Content of Hsc Science Biology 1chapter
 - 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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