

SECTION - I**BOTANY**

Q.1. Explain dihybrid cross with suitable example.

[7]

OR

What is bacteriophage? Explain lytic cycle of bacteriophage with suitable diagram.

Q.2. Select and write the most appropriate answer from the given alternatives for each sub-question :

[7]

- (i) Which one of the following is an example of multiple alleles ?
(a) Height in pea plant (b) Hair colour in cattle
(c) Petal colour in four o'clock plant (d) Wing-size in *Drosophila*
- (ii) The harmful radiations absorbed by the ozone layer are _____.
(a) X-rays (b) visible light
(c) Ultraviolet (UV) rays (d) gamma rays
- (iii) The micro-organism used in the production of acetic acid is _____.
(a) *Aspergillus niger* (b) *Rhizopus arrhizus*
(c) *Neurospora gossypii* (d) *Acetobacter aceti*
- (iv) The adenosine triphosphate (ATP) gain during glycolysis, connecting link and Krebs' cycle respectively are _____.
(a) 8, 6, 24 (b) 8, 24, 6 (c) 24, 8, 6 (d) 6, 8, 24
- (v) Guano deposits are rich in _____.
(a) sulphur (b) phosphorus (c) calcium (d) magnesium
- (vi) How many meiotic divisions are required for the formation of 100 seeds ?
(a) 25 (b) 50 (c) 100 (d) 125
- (vii) During fertilisation male gametes are carried by pollen tube. This is called _____.
(a) syngamy (b) siphonogamy (c) mesogamy (d) polygamy

Q.3. (A) Answer in 'ONE' sentence each :

(6) [12]

- (i) Define 'microsporogenesis'.
(ii) Define 'greenhouse effect'.
(iii) Give any 'two' examples of edible mushrooms.
(iv) Name the reactions when α -ketoglutarate is converted to succinyl Co-A in Krebs' cycle.
(v) What is amphimixis?
(vi) Give the role of heterocyst.

Q. 3.(B) Sketch and label ultrastructure of mitochondrion.

(2)

Q. 3.(C) Attempt Any TWO of the following :

(4)

- (i) Give advantages of single cell protein (SCP).
(ii) Explain the concept of primary productivity.
(iii) With the help of suitable diagram define 'bagging' and 'tagging' of flower.
(iv) Give advantages of self pollination.

Q. 4 (A) Attempt Any TWO of the following :

(6) [9]

- (i) A heterozygous tall plant of pea is crossed with a dwarf plant of pea.

Hsc Biology Past Papers Answers

M Lipman



Hsc Biology Past Papers Answers:

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Table of Contents Hsc Biology Past Papers Answers

1. Understanding the eBook Hsc Biology Past Papers Answers
 - The Rise of Digital Reading Hsc Biology Past Papers Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsc Biology Past Papers Answers
 - 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 Biology Past Papers Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsc Biology Past Papers Answers
 - Personalized Recommendations
 - Hsc Biology Past Papers Answers User Reviews and Ratings
 - Hsc Biology Past Papers Answers and Bestseller Lists
5. Accessing Hsc Biology Past Papers Answers Free and Paid eBooks
 - Hsc Biology Past Papers Answers Public Domain eBooks
 - Hsc Biology Past Papers Answers eBook Subscription Services
 - Hsc Biology Past Papers Answers Budget-Friendly Options
6. Navigating Hsc Biology Past Papers Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Hsc Biology Past Papers Answers Compatibility with Devices
 - Hsc Biology Past Papers Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsc Biology Past Papers Answers
 - Highlighting and Note-Taking Hsc Biology Past Papers Answers
 - Interactive Elements Hsc Biology Past Papers Answers
8. Staying Engaged with Hsc Biology Past Papers Answers

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsc Biology Past Papers Answers
9. Balancing eBooks and Physical Books Hsc Biology Past Papers Answers
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsc Biology Past Papers Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hsc Biology Past Papers Answers
- Setting Reading Goals Hsc Biology Past Papers Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hsc Biology Past Papers Answers
- Fact-Checking eBook Content of Hsc Biology Past Papers Answers
 - 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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