

Question Paper Code 57/1/1

SECTION – A

(Q. Nos. 1 - 5 are of one mark each)

1. British geneticist R.C. Punnett developed a graphical representation of a genetic cross called "Punnett Square". Mention the possible result this representation predicts of the genetic cross carried.

Ans. (Probability of) all genotypes / genotypic ratio

[1 mark]

2. State the two principal outcomes of the experiments conducted by Louis Pasteur on origin of life.

Ans. Life comes from pre-existing life / biogenesis, dismissed the concept of spontaneous generation = $\frac{1}{2} + \frac{1}{2}$

[1 mark]

3. Name the layer of the atmosphere that is associated with 'good ozone'.

Ans. Stratosphere

[1 mark]

OR

Mention the term used to describe a population interaction between an orchid growing on a forest tree.

Ans. Commensalism

[1 mark]

4. What are 'flocs', formed during secondary treatment of sewage ?

Ans. Masses of bacteria associated with fungal filament (to form mesh like structure)

[1 mark]

OR

Write any two places where methanogens can be found.

Ans. Anaerobic sludge (digester), rumen of cattle / ruminants / stomach of cattle / gut of cattle, marshy area, flooded rice fields, biogas plant (Any two) = $\frac{1}{2} + \frac{1}{2}$

[1 mark]

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Table of Contents **Zambian Grade 12 Biology Practical Papers**

1. Understanding the eBook **Zambian Grade 12 Biology Practical Papers**
 - The Rise of Digital Reading **Zambian Grade 12 Biology Practical Papers**
 - Advantages of eBooks Over Traditional Books
2. Identifying **Zambian Grade 12 Biology Practical Papers**
 - 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 **Zambian Grade 12 Biology Practical Papers**
 - User-Friendly Interface
4. Exploring eBook Recommendations from **Zambian Grade 12 Biology Practical Papers**

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

- Fact-Checking eBook Content of Zambian Grade 12 Biology Practical Papers
- 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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