

**MARKING SCHEME (2023-24)****Class XII****Biology (Subject Code-044)**

Q. No.	Answer	Marks
<b>Section - A</b>		
1	d) black pepper	1
2	d) tapetum	1
3	d) 7	1
4	a) males and females, respectively	1
5	a) 0.32	1
6	a) random and directionless	1
7	d) Nucleotide	1
8	d) aa	1
9	c) Cyclosporin A produced from <i>Trichoderma polysporum</i>	1
10	d)	1
11	b) Reduce pesticide accumulation in food chain	1
12	d) Soil Sample C	1
13	d) A is false but R is true	1
14	c) A is true but R is false	1
15	a) Both A and R are true and R is the correct explanation of A.	1
16	a) Both A and R are true and R is the correct explanation of A.	1
<b>Section – B</b>		
17	<p>Spermatogenesis starts at the age of puberty due to significant increase in the secretion of gonadotropin releasing hormone (GnRH). This is a hypothalamic hormone. [0.5]</p> <p>The increased levels of GnRH then act at the anterior pituitary gland and stimulate secretion of two gonadotropins – luteinising hormone (LH) and follicle stimulating hormone (FSH). [0.5]</p> <p>LH acts at the Leydig cells and stimulates synthesis and secretion of androgens. Androgens, in turn, stimulate the process of spermatogenesis. [0.5]</p> <p>FSH acts on the Sertoli cells and stimulates secretion of some factors which help in the process of spermiogenesis. [0.5]</p>	2
18	<p>a) CTT would become CAT which codes for valine. Thus, valine would replace glutamic acid at that point. [0.5]</p> <p>b) Sickle cell anaemia [0.5], the mutant haemoglobin molecule undergoes polymerization [0.5] leading to the change in the shape of the RBC from biconcave disc to elongated sickle like structure. [0.5]</p>	2

# Marking Scheme 9742 O N 14

**PT Brinkman**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the PT Brinkman text.

**Marking Scheme 9742 O N 14:**

## Decoding **Marking Scheme 9742 O N 14**: Revealing the Captivating Potential of Verbal Expression

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### **Table of Contents Marking Scheme 9742 O N 14**

1. Understanding the eBook Marking Scheme 9742 O N 14
  - The Rise of Digital Reading Marking Scheme 9742 O N 14
  - Advantages of eBooks Over Traditional Books
2. Identifying Marking Scheme 9742 O N 14
  - 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 Marking Scheme 9742 O N 14
  - User-Friendly Interface
4. Exploring eBook Recommendations from Marking Scheme 9742 O N 14
  - Personalized Recommendations
  - Marking Scheme 9742 O N 14 User Reviews and Ratings
  - Marking Scheme 9742 O N 14 and Bestseller Lists

5. Accessing Marking Scheme 9742 O N 14 Free and Paid eBooks
  - Marking Scheme 9742 O N 14 Public Domain eBooks
  - Marking Scheme 9742 O N 14 eBook Subscription Services
  - Marking Scheme 9742 O N 14 Budget-Friendly Options
6. Navigating Marking Scheme 9742 O N 14 eBook Formats
  - ePub, PDF, MOBI, and More
  - Marking Scheme 9742 O N 14 Compatibility with Devices
  - Marking Scheme 9742 O N 14 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Marking Scheme 9742 O N 14
  - Highlighting and Note-Taking Marking Scheme 9742 O N 14
  - Interactive Elements Marking Scheme 9742 O N 14
8. Staying Engaged with Marking Scheme 9742 O N 14
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Marking Scheme 9742 O N 14
9. Balancing eBooks and Physical Books Marking Scheme 9742 O N 14
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Marking Scheme 9742 O N 14
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Marking Scheme 9742 O N 14
  - Setting Reading Goals Marking Scheme 9742 O N 14
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Marking Scheme 9742 O N 14
  - Fact-Checking eBook Content of Marking Scheme 9742 O N 14
  - 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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