

Roll Number  
In Figures:-  
In Words:-

PR IX(01)15

BIOLOGY (New)  
9th (Fresh/Reappear)

For Board's Office use

only

Superintendent  
Signature Stamp:

For English Medium Students

BIOLOGY (New)

9th (Fresh/Reappear)

Fig. No. \_\_\_\_\_

(For Board's Office use only)

Time Allowed: 3 Hours

Marks: 35

Note:- There are THREE section in this paper i.e Section A,B, and C.

Attempt Section-A on the same paper and return it to the Superintendent within the given time.

No marks will be awarded for Cutting, Erasing or Overwriting. Mark Identification will lead to UFM case, Mobile Phoe etc are not allowed in the examination hall.

Time Allowed:15 Minutes

Section-A

Marks:- 12

Q-1. Write the correct option i.e. A, B, C or D in the empty box provided opposite to each part.

i. Which one of the given is the basic unit of classification?

(A) Genus (B) Family (C) Order (D) Species  D

ii. Meiosis takes place in which of the given organs?

(A) Testes (B) Lungs (C) Heart (D) Stomach  A

iii. Plasma contains all except \_\_\_\_\_.

(A) Water (B) Platelets (C) Proteins (D) Nutrients  B

iv. Carbon is a key element in \_\_\_\_\_.

(A) Organic (B) Inorganic (C) Chemical (D) All of these  A

v. Which substance is used by plants to make proteins?

(A) Carbondioxide (B) Oxygen (C) Nitrates (D) Vitamins  C

vi. Euglena belongs to the kingdom \_\_\_\_\_.

(A) Monera (B) Protista (C) Fungi (D) None  A

vii. Enzymes are \_\_\_\_\_.

(A) Carbohydrates (B) Fats (C) Proteins (D) Starch  C

viii. \_\_\_\_\_ is the layer of air surrounding the Earth.

(A) Lithosphere (B) Atmosphere (C) Ecosystem (D) Biosphere  B

ix. Most plants acquire their nitrogen mainly in the form of \_\_\_\_\_.

(A)  $NH_3$  (B)  $N_2$  (C)  $CN_2H_2$  (D) None  A

x. New cells arise from \_\_\_\_\_.

(A) Tissue (B) Soil (C) Organ (D) Already existing cell  D

xi. Photosynthesis takes place in \_\_\_\_\_.

(A) All cells of (B) Green cells of (C) Only in (D) Roots

plant body plant body leaf cells Cells

xii. The possible answer to the problem is \_\_\_\_\_.

(A) Information (B) Hypothesis (C) Data (D) None

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Note:- Time allowed for Section-B and Section-C is 2 Hours and 15 Minutes.

SECTION-B

Marks: 32

Q-II Answer any EIGHT parts. Each part carries FOUR marks.

1. Write down the contributions of Jabir Bin Hayyan in the field of science.

2. Differentiate between inductive and deductive reasoning.

3. Write the characteristics of Kingdom Fungi.

4. Define species and Genus.

5. What is a Cell Cycle?

6. Explain Plasmolysis and Deplasmolysis.

7. Differentiate between Endocytosis and Exocytosis.

8. What are the factors that influence the enzyme reaction rates?

9. Give at least four differences between Mitosis and Meiosis.

10. What do you mean by a Balanced Diet?

11. What is the Photosynthesis?

SECTION-C

Marks: 20

Note:- Attempt any THREE questions. All questions carry equal marks.

Q-III (a) What is Biology? Describe any five major branches of Biology.

(b) Briefly describe various steps of scientific method.

Q-IV (a) Describe the various types of plant tissues.

(b) Write down the significance of Mitosis.

Q-V (a) What is Respiration? Describe its types?

(b) Describe the composition of Human Blood.

Q-VI (a) What are the various factors affecting the rate of transpiration?

(b) State the characteristics of Enzymes.