

PR IX 25
BIOLOGY

9th (Fresh/Reappear)

- ۱۔ ہر سوال کے سامنے چار دائرے دیئے گئے ہیں۔ صرف صحیح جواب والا دائرہ بھریں۔
۲۔ دائروں کو شیڈ (بھرنے) کے لیے غلط یا غلط لے رنگ کا دکر استعمال کریں۔
۳۔ جواب میں ایک سے زائد دائرے بھرنے سے جواب غلط تصور ہوگا۔

Time: 15 Minutes

SECTION-A

Marks: 12

Q1: Choose the correct option i.e, A,B,C or D?

- Which of the given organism is an example of kingdom plantae?
☐ Paramecium ☒ Puffballs ☐ Plasmodium ☐ Mulberry
- Scientists typically organize collected data in the form of.
☐ Written reports ☒ Graphs and tables
☐ Charts only ☐ Conclusions
- The term "genus" refers to.
☒ A group of organisms that can naturally interbreed
☐ The highest level of classification of organisms
☐ A group of species that are similar in some characters
☐ Separation of dangerous organisms in habitats
- Which of the given organisms shows a colonial form of organization?
☐ Paramecium ☒ Volvox ☐ Snail ☐ Mushroom
- Which of the given is statement about prokaryotic cells is correct?
☒ They lack membrane bounded nucleus
☐ They have nuclear material with double membrane
☐ They have large size ribosome
☐ They have a cellulose-based cell wall
- Which of the given is the result of meiosis in sexually reproducing organisms?
☐ Production of identical cells
☐ Increase in the chromosome number 310
☐ Formation of diploid cells
☒ Formation of haploid gametes
- During which phase of mitosis nuclear envelop break down?
☒ Prophase ☐ Metaphase ☐ Anaphase ☐ Teleophase

8. Pepsin enzymes are classified as extracellular because they.
- ☒ Function outside the cell that produce them
 - ☐ Remain inside the cell for digestion
 - ☐ Are inactive in the stomach
 - ☐ Do not play a role in digestion
9. Which of the given best describes the process of oxidation in an oxidation reduction reaction?
- ☒ Gain of hydrogen
 - ☐ Loss of hydrogen
 - ☐ Gain of protons
 - ☐ Loss of protons
10. Which of the given organisms primarily use alcoholic fermentation to produce ethanol?
- ☐ Humans
 - ☐ Plants
 - ☐ Mushrooms
 - ☒ Yeast
11. Which of the given is a main cause of famine?
- ☐ Equal distribution of food
 - ☐ Rapid increase in food supply
 - ☒ Rapid increase in population growth
 - ☐ Control of crop diseases
12. Root hair cells absorb more salts through.
- ☐ Osmosis
 - ☐ Diffusion
 - ☒ Active transport
 - ☐ Evaporation

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Note: Time allowed for Section-B & Section-C is 2 Hours and 40 Minutes.

SECTION-B

Marks: 32

Q2: Answer any EIGHT parts. Each part carries 4 marks?

1. Explain organ system and give an example from the human body?
2. Suggest two methods Pakistan can use to reduce deforestation?
3. Briefly explain the structure of cell wall?
4. What would happen to a cell placed in an isotonic solution?
5. Write events take place in early prophase?
6. Write major events occur during anaphase II of meiosis?
7. Briefly describe the role of enzymes as catalysts in biochemical reactions?
8. Why is sunlight necessary for photosynthesis?
9. How do simple sugars and amino acids enter the bloodstream from the villi?

10. What is diastole in the cardiac cycle?
11. Provide a brief explanation of the structure of the aorta?

SECTION-C

Marks: 21

Q3: Attempt any THREE questions. All questions carry equal marks?

1. (a) What is a proportion, and how is it formed using two ratios?3
(b) Write down name of any two drugs that have been derived from plants? 4
2. (a) Explain how the shape of a cell relates to its function, using an example of red blood cells? 3
(b) What events take place in S-phase of interphase? 4
3. (a) How does temperature affect the activity of human enzymes?4
(b) How does water move from the roots to the leaves in plants?3
4. (a) What is digestion, and how does it contribute to the digestive system? 4
(b) What makes blood group AB known as the universal recipient?3

