

Time: 1 Hour 30 Minutes

Max. Marks: 40

Instructions:

1. The question paper has 4 sections and 17 questions. Answer all the questions.
2. Section A: 10 multiple choice questions of 1 mark each.
3. Section B: 3 questions of 2 marks each. Section C: 2 questions of 4 marks each.
4. Section D: 2 questions of 8 marks each, with internal choice.
5. Draw neat, labelled diagrams wherever necessary.

SECTION – A

10 × 1 = 10

Choose the correct answer and write its letter.

1. Living organisms that can be seen only with the help of a microscope are called
A) macro-organisms B) microorganisms C) decomposers D) parasites
2. The instrument used to observe microorganisms is the
A) telescope B) microscope C) periscope D) stethoscope
3. Which part of the cell controls all its activities?
A) cell membrane B) cytoplasm C) nucleus D) vacuole
4. The green structures in leaf cells that help in making food are
A) chloroplasts B) mitochondria C) vacuoles D) nuclei
5. The bacteria found in the root nodules of pea and bean plants that fix nitrogen are
A) Lactobacillus B) Rhizobium C) yeast D) Plasmodium
6. Which of the following diseases is caused by a virus?
A) common cold B) typhoid C) malaria D) cholera
7. The process in which yeast converts sugar into alcohol is called
A) photosynthesis B) fermentation C) respiration D) pasteurisation
8. Which of the following is a communicable disease?
A) diabetes
B) tuberculosis
C) cancer
D) high blood pressure
9. Bacteria and fungi that break down dead plants and animals are called
A) producers B) consumers C) decomposers D) parasites
10. Covering the mouth and nose while sneezing stops the spread of germs through
A) air B) water C) food D) insects

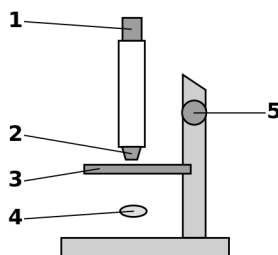
SECTION – B

3 × 2 = 6

11. What are pathogens? Give two examples.
12. Why does food stay fresh for a longer time in a refrigerator?
13. Write any two differences between a plant cell and an animal cell.

SECTION – C**2 × 4 = 8**

14. Identify the parts marked 1 to 5 in the diagram of a compound microscope. Write the function of any two of them.



15. How do communicable diseases spread from one person to another? Explain any four ways with examples.

SECTION – D**2 × 8 = 16**

Each question has an internal choice. Answer either (A) or (B).

16. A) Microorganisms can be harmful. Explain with examples how they cause diseases in humans, animals and plants and how they spoil food. Write any four methods of preserving food.

(OR)

- B) Name the five major groups of microorganisms. Write two examples of each group and one useful or harmful effect of each in a table.

17. A) What is a vaccine? How does vaccination protect the body from diseases? Name any four diseases against which children are vaccinated in India.

(OR)

- B) 'Health is the real wealth.' Write a short essay on how a balanced diet, exercise, sleep, personal hygiene and a clean surrounding help us stay healthy.

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