

VASISHTHA GENESIS SCHOOL, BARDOLI

Name: Roll No: Date:

Class: 8 Div:

Subject: SCIENCE

PT-1 WORKSHEET

Chapter 2: The Invisible Living World & Chapter 4: Magnetic and Heating Effects of Electric Current

SECTION – I: MULTIPLE CHOICE QUESTIONS (MCQS)

Chapter 2: The Invisible Living World

1. Which instrument is used to observe microorganisms?

- a) Telescope b) Microscope c) Periscope d) Binoculars

2. Microorganisms that can make their own food are:

- a) Bacteria b) Fungi c) Algae d) Viruses

3. Which of the following is NOT a microorganism?

- a) Amoeba b) Yeast c) Mushroom d) Virus

4. The process by which yeast converts sugar into alcohol and carbon dioxide is called:

- a) Respiration b) Fermentation c) Germination d) Photosynthesis

5. Which microorganism causes malaria?

- a) Bacteria b) Virus c) Protozoa d) Fungi

Chapter 4: Magnetic and Heating Effects of Electric Current

6. A magnetic compass contains:

- a) Iron rod b) Magnetic needle c) Copper wire d) Cell

7. The heating effect of current is used in:

- a) Electric bell b) Electric heater c) Compass d) Magnet

8. The filament of an electric bulb is generally made of:

- a) Copper b) Aluminium c) Tungsten d) Iron

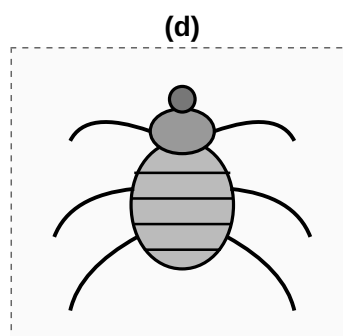
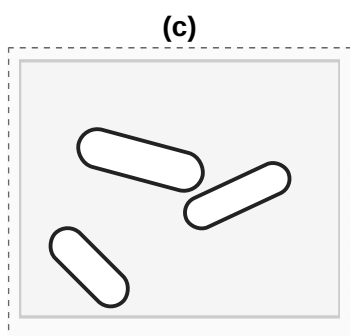
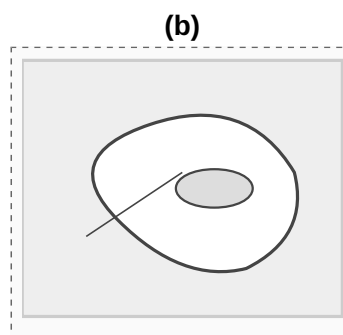
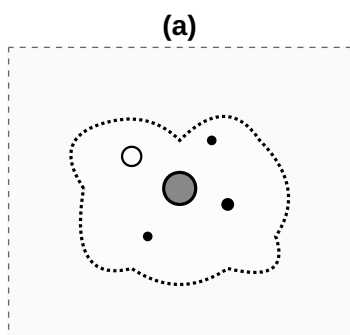
9. An electromagnet becomes magnetic when:

- a) It is heated b) Current flows through it c) It is cooled d) It is painted

10. Which device works on the magnetic effect of electric current?

- a) Electric bell b) Toaster c) Geyser d) Iron box

11. Which of the following cannot be classified as a microorganism?



SECTION – III: ASSERTION AND REASON

Directions: Choose the correct option from the following:

- A. Both Assertion and Reason are true, and Reason is the correct explanation of Assertion.
B. Both Assertion and Reason are true, but Reason is not the correct explanation of Assertion.
C. Assertion is true, but Reason is false.
D. Assertion is false, but Reason is true.

1.

Assertion: Bread dough rises when yeast is added.

Reason: Yeast releases carbon dioxide during fermentation.

2.

Assertion: Viruses are considered living organisms.

Reason: They can reproduce only inside living cells.

3.

Assertion: All microorganisms cause diseases.

Reason: Many microorganisms are useful in food production and decomposition.

4.

Assertion: A compass needle deflects near a current-carrying conductor.

Reason: Electric current produces a magnetic field around the conductor.

5.

Assertion: An electric fuse has a high melting point.

Reason: It melts when excessive current flows through it.

6.

Assertion: Electromagnets are used in electric bells.

Reason: Electromagnets can be switched on and off by controlling electric current.

SECTION – IV: SHORT ANSWER QUESTIONS (2 MARKS EACH)

1. What are microorganisms?
2. Name any two useful microorganisms and their uses.
3. What is fermentation?
4. What is an electromagnet?
5. Why does the filament of a bulb glow?
6. What is the function of an electric fuse?

SECTION – V: LONG ANSWER QUESTIONS (4 MARKS EACH)

1. Explain the beneficial role of microorganisms.
2. Differentiate between bacteria and viruses.
3. Difference between Dry cell and Voltaic cell.
4. Explain the working of an electric bell.
5. Explain the heating effect of electric current with two applications.