

**BUDHA DAL PUBLIC SCHOOL PATIALA**

**Final Examination (3 March 2026)**

**CLASS - VII**

**PAPER- SCIENCE (SET-B)**

**Time: 3 hr.**

**M.M. 80**

**General Instructions:**

1. *All questions are compulsory.*
2. *Attempt all questions section wise in the serial order neatly and leave one line after every answer.*
3. *Draw neat and labelled diagrams wherever required.*

**Section - A**

**Q1. Answer the following in one sentence:**

**(10×1=10)**

1. Name the acid used in car batteries.
2. Which of the following is a physical process – Breathing or Respiration?
3. Which blood vessel carries blood from heart to other parts of the body?
4. What is process of removing toxic wastes from body called?
5. What is a bulb like projection formed on the body of an organism called?
6. Name female reproductive part of a flower.
7. Name one device which is based on the use of electromagnet.
8. Which mirror is used as a side – view mirror in automobiles.
9. Which of the seven colours deviates the least when a ray of white light travels through a prism?
10. Name a substance that sublimates on heating.

**Section - B**

**Q2. Answer in short:**

**(10×2=20)**

1. How is basic soil treated?
2. Why do we feel hungry after running or heavy exercise?
3. What happens to ribs and diaphragm during exhalation?
4. What is pulse and pulse rate?
5. How does vegetative propagation occur in sugarcane and potato?
6. What is closed circuit? Draw a closed circuit.
7. Give two points of difference between a convex lens and a concave lens?
8. What type of mirror is used :
  - a) As a shaving mirror
  - b) Vigilance mirror in a big shop
9. What happens when baking soda reacts with vinegar? What kind of change is it and why?
10. Give two characteristics of a physical change.

B-



**Q3. Answer the questions:**

1. What will you observe when :
  - a) A drop of sodium hydroxide is added to blue litmus?
  - b) A drop of hydrochloric acid is added to China rose indicator?
  - c) A drop of dilute sulphuric acid is added to phenolphthalein?
2. What happens when ant or bee stings a person? How is it treated?
3. Differentiate between anaerobic respiration and aerobic respiration. Give three points.
4. Why do muscles in legs develop cramps when we run fast?
5. Write three differences between arteries and veins.
6. Describe germination of seeds.
7. Differentiate between sexual and asexual reproduction. Give three points.
8. Why cannot copper wire be used as a fuse wire?
9. What is meant by magnetic effect of current? Name two appliances based on this effect.
10. What is dispersion of light? What causes dispersion of white light?

#### Section - D

**Q4. Multiple Choice Questions : (Choose the correct option)**

(4×1=4)

1. The acid present in curd/ sour milk is
  - a) acetic acid    b) formic acid    c) lactic acid    d) hydrochloric acid
2. Asexual reproduction in potato is carried out through which part?
  - a) Bulb    b) Rhizome    c) Tuber    d) Cutting of plant
3. Which of following works on principle of heating effect of electric current?
  - a) fan and geyser    b) iron and fan
  - c) heater and refrigerator    d) geyser and iron
4. The image formed by outer surface of a spoon is
  - a) erect and smaller
  - b) erect and larger
  - c) inverted and smaller
  - d) inverted and larger

**Q5. Fill in the blanks :**

(3×1=3)

- 1) The reaction between an acid and a base to form salt and water is called \_\_\_\_\_ reaction.
- 2) A combination of \_\_\_\_\_ is called a battery.
- 3) A parallel beam of light after passing through a \_\_\_\_\_ lens converges at a point.

Q6.

**State True or False :**

1) Kidneys act as filters to remove waste from the blood. \_\_\_\_\_

2) All flowers have both male and female parts in the same plant. \_\_\_\_\_

Q7.

In the following question, two statements are given - one labelled Assertion (A) and other labelled Reason (R). Select correct answer to this question from codes (a), (b), (c) and (d) as given below : (1×1=1)

**Assertion (A):** Electric current is the flow of electric charge in a circuit.**Reason (R) :** An electric fuse protects the circuit in case of excessive current.

- a) Both A and R are true and R is correct explanation of assertion.
- b) Both A and R are true but R is not correct explanation of assertion.
- c) A is true but R is false.
- d) A is false but R is true.

(5×1=5)

Q8.

**Case Study Based Questions:**

Neha added salt to a glass of water and stirred it. The salt disappeared, but when she heated the solution, water evaporated and salt was left behind.

**Answer the following questions based on the above paragraph:**

- a) What types of change occurs when salt dissolves in water?
- b) Is dissolving salt a reversible change? Explain.
- c) Does any new substance form in this process?
- d) What happens when salt solution is heated?
- e) Give one more example of a similar change.

(5×1=5)

Q9.

**Diagram Based Question:**

- a) Identify the given diagram.
- b) Label the parts (1), (2), (3) and (4) in the following diagram.

