

BUDHA DAL PUBLIC SCHOOL PATIALA

Final Examination (3 March 2026)

CLASS - VII

PAPER- SCIENCE (SET-A)

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 present in grapes.
2. Who will have higher breathing rate – a man at rest or a man after running fast?
3. Name the carrier of oxygen to the cells in our body.
4. Which system is involved in removal of gaseous waste?
5. What is splitting of a cell into two or more cells of same type called?
6. Name male reproductive part of a flower.
7. Which metal is used for making core of electromagnet?
8. Which mirror is used as dentist's mirror?
9. Which of the seven colours deviates the most when a ray of white light travels through a prism?
10. What is the liquid left after crystallisation called?

Section - B

Q2. Answer in short:

(10×2=20)

1. What is meant by neutralisation reaction? Give one example.
2. Is breathing rate of a person always constant? Why or why not?
3. What happens to ribs and diaphragm during inhalation?
4. Why do veins have valves whereas arteries do not have?
5. How does vegetative propagation occur in potato and mint?
6. What is open circuit? Draw an open circuit.
7. What is virtual image? How is it different from real image?
8. What type of mirror is used :
 - a) In a searchlight
 - b) As a side view mirror in a car
9. What is crystallisation? What type of change is it and why?
10. Give two characteristics of a chemical change.

A-1

Q3. Answer the questions:

1. Give three differences between an acid and a base.
2. How is indigestion caused? How can we cure it?
3. Give three differences between breathing and respiration.
4. Why do muscles in legs develop cramps when we run fast?
5. What is blood? Give composition of blood.
6. Name three types of body wastes and corresponding system involved.
7. How does budding differ from binary fission?
8. What is the role of fuse in any electrical circuit? Why is the fuse wire made of an alloy having low melting point?
9. What is meant by heating effect of current? Explain how does a bulb glow?
10. Which phenomenon is responsible for the formation of rainbow? Explain it.

Section - D

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

(4×1=4)

1. The solution which turns red litmus blue is
a) Soap solution b) lemon juice c) water d) vinegar
2. Which of the following reproduces by budding?
a) Bacteria b) Rhizopus c) Spirogyra d) Yeast
3. In an electric circuit, current starts from the
a) positive terminal b) either of two terminals
c) negative terminal d) depends upon the circuit
4. Which of the following is not characteristic of concave lens?
a) A diverging lens
b) Thick at edges and thin in middle
c) Used to correct longsightedness
d) Used to correct shortsightedness

Q5. Fill in the blanks :

(3×1=3)

- 1) An effective antacid contains _____.
- 2) Heating coil in electric heater is made from _____.
- 3) The rear-view mirror/ side mirror in automobiles is a _____ mirror.

Q6. State True or False :

(2×1=2)

- 1) Excretion is the removal of metabolic wastes from the body. ____
- 2) In a flowering plant, fertilisation of the egg occurs in the ovule. ____

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): An electromagnet retains its magnetism as long as current passes through it.

Reason (R): An electromagnet is a temporary magnet.

A-2

- 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.

Q8.

Case Study Based Questions:

(5×1=5)

A bowl of milk was kept in a warm place overnight. The next morning, it turned into curd and had a sour taste.

Answer the following questions based on the above paragraph:

- a) Name the change that has occurred in milk?
- b) Is this a physical or chemical change?
- c) Why is curd formation an irreversible change?
- d) Name the substance formed after the change.
- e) Mention one useful chemical change in daily life.

Q9.

Diagram Based Question:

(5×1=5)

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

