SET 1 **MODEL QUESTION PAPER** BS-7/1

SECOND TERM SUMMATIVE ASSESSMENT 2026-27

BASIC SCIENCE

Class : 7 **Time : 2 Hrs 15 Minutes**

Instructions

- 15 minutes cool-off time is allotted for reading and understanding the activities.
- Answer all six questions.
- Questions 3 and 4 have two parts (A & B). Answer any one of them.

1.

a) In which part of the alimentary canal does the digestion of protein begin?

A. Mouth B. Stomach C. Small intestine D. Large intestine

b) Complete the table showing the teeth and their functions.

Type of teeth	**Function**
Incisors	A. .....
B.	Tearing food
Premolars	C. .....
D.	Grinding food

c) Arrange the following stages of nutrition in the correct order:

Absorption, Ingestion, Egestion, Digestion, Assimilation

d) Why do elders advise us to chew food well before swallowing?

2. a) Plan an experiment to find out which of the materials given below allow electricity to pass through them. Write the materials needed and the procedure.

(Copper wire, plastic scale, iron nail, rubber eraser, aluminium foil, dry wood, pencil lead, glass bangle)

b) Classify the materials under suitable headings.

c) Why do electricians use screwdrivers and pliers with plastic or rubber handles?

3. Question 3 has two parts 3 (A) & 3 (B). Write either 3 (A) or 3 (B).

3. (A)

a) Two plane mirrors are kept at an angle of 60° to each other. How many images of an object kept between them can be seen?

A. 3 B. 4 C. 5 D. 6

b) An object is kept 15 cm in front of a plane mirror. What is the distance between the object and its image? Write two other features of the image formed by a plane mirror.

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c) Name the device used in a submarine to see objects above the water. How many plane mirrors are used in it?

OR

3. (B) Read the news item given below.

"Bright lights near the beach confuse baby sea turtles. Instead of moving towards the sea, they move towards the road."

a) What is light pollution?

b) Write two ways in which light pollution affects living beings.

c) Suggest two measures to reduce light pollution in our locality.

4. Question 4 has two parts 4 (A) & 4 (B). Write either 4 (A) or 4 (B).

4. (A)

a) Arrange the parts of the respiratory system in the order in which air passes through them.

Bronchi, Nose, Alveoli, Trachea, Pharynx, Bronchioles

b) Where does the exchange of oxygen and carbon dioxide take place in the lungs?

A. Trachea B. Bronchi C. Alveoli D. Pharynx

c) What is the role of the diaphragm in breathing?

OR

4. (B)

a) The following table contains digestive organs and the processes that take place in them. Find the correct match.

Organ	**Process**
1. Mouth	a. Absorption of water and salts
2. Stomach	b. Starch begins to digest
3. Small intestine	c. Protein begins to digest
4. Large intestine	d. Digestion is completed

A. 1-b, 2-c, 3-d, 4-a B. 1-c, 2-b, 3-a, 4-d

C. 1-b, 2-d, 3-c, 4-a D. 1-a, 2-c, 3-d, 4-b

b) What is peristalsis? Where does it take place?

c) Name the digestive juice produced by the liver. What is its role?

5. On a hot afternoon, Anu noticed that the telephone wires between the posts were hanging loosely.

a) What property of heat is seen here?

A. Thermal expansion B. Conduction

C. Convection D. Radiation

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b) Identify the method of heat transfer in each situation.

Situation	Method of heat transfer
The handle of a steel spoon in hot tea becomes hot.	A. .....
Sea breeze blows during day time.	B. .....
We feel the warmth of the sun.	C. .....

c) Why are light coloured cotton clothes preferred in summer?

6.

a) Which blood vessels carry blood away from the heart?

A. Veins B. Arteries C. Capillaries D. Valves

b) Complete the table on blood components.

Component of blood	Function
Red blood cells	A. .....
B.	Fight against germs
Platelets	C. .....
Plasma	D. .....

c) How many chambers are there in the human heart? Name them.

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