

**SECOND TERM EVALUATION 2024-25**

**BASIC SCIENCE MODEL QUESTION PAPER 2**

**Standard: VII**

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**Instructions:**

- Attempt any 6 activities out of the 8 given below.
  - Read the questions carefully before answering..
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**Activity 1**

1. True or False:
  - Heat travels from a hotter object to a colder object.
  - Radiation requires a medium to transfer heat.
2. Why does the handle of a frying pan feel hot even if it is not directly heated?
3. Explain why woolen clothes keep us warm in winter.

**Activity 2**

1. List the five stages of nutrition and explain the process of absorption.
2. Fill in the blanks:
  - Digestion of food starts in the \_\_\_\_\_ and is completed in the \_\_\_\_\_.
  - The process of removing undigested food from the body is called \_\_\_\_\_.
3. Why is chewing food properly important for digestion?

**Activity 3**

1. Write the differences between a laboratory thermometer and a clinical thermometer.
2. Why is the kink in a clinical thermometer important?
3. A laboratory thermometer shows a reading of 55°C. Convert it to Fahrenheit using the formula:

$$F = \frac{9}{5}C + 32.$$

**Activity 4**

1. Draw a labeled diagram of the human respiratory system.
2. Why are alveoli important for respiration?
3. Fill in the blanks:

- The diaphragm \_\_\_\_\_ during inhalation.
- Air reaches the lungs through the \_\_\_\_\_.

#### Activity 5

1. Write the laws of reflection and explain their importance in daily life.
2. Match the following:

Device	Principle
Kaleidoscope	(a) Multiple reflections
Plane mirror	(b) Reflection
Convex lens	(c) Refraction

3. How do multiple reflections create patterns in a kaleidoscope?

#### Activity 6

1. Explain the difference between land breeze and sea breeze.
2. Why do coastal areas have moderate climates?
3. Draw a simple labeled diagram to show the formation of a land breeze.

#### Activity 7

1. Write the functions of the following blood components:
  - Plasma
  - White Blood Cells
2. Complete the table:

Part of the Circulatory System	Function
Heart	_____
Blood Vessels	_____

3. Why is blood circulation important for the human body?

#### Activity 8

1. Classify the following as transparent, translucent, or opaque:

- A glass window
- Butter paper
- Aluminum foil
- Clear plastic sheet

2. Choose the correct option:

Which of these is an example of a translucent material?

- (a) Mirror
- (b) Frosted glass
- (c) Wooden table

3. Explain how frosted glass is made translucent.

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