

P.V.G.'s
Muktangan English School & Jr. College, Pune - 09
Annual Examination (2024-25)
STD VIII

Subject : Science
Date : 26.03.2025

Marks - 50
Time : 8.00 am to 10.00 am

Q1. A) Fill in the blanks with correct alternative and rewrite the sentences. (4)

1. The speed of light is _____ m/s.
a) 310×10^8 b) 3.10×10^8 c) 3×10^8
2. Man is _____ in an ecosystem.
a) Producer b) Consumer c) decomposer
3. Motor cars are coated with _____.
a) Teflon b) Teracotta c) Silica
4. A thermometer is used to measure _____.
a) Heat b) Pressure c) Temperature

B) Match the following (4)

A	B
1. Lead glass	a. Plates
2. Optic glass	b. Electric bulb
3. Bakelite	c. Lens
4. Melamine	d. Electric Switch

C) State whether the following statements are true or false and rewrite the sentences. (2)

1. Light year is used to measure time.
2. Photosynthesis is a chemical change.

D) Complete the table.**(2)**

	Substance/Source	Acid (Natural/organic)
1.	Vinegar	_____
2.	_____	Lactic acid
3.	Lemon	_____
4.	_____	Tartaric acid

Q2. A) Give Scientific reasons. (Any 3)**(6)**

1. Astronauts on the moon cannot hear each other directly.
2. Rhinos were restored in Dudhwa forest.
3. Food must have limited amount of salts.
4. Rails have gaps at specific distance.

B) Distinguish between the following at giving atleast two points of difference. (Any 2)**(4)**

- i) Regular and irregular reflection.
- ii) Thermoplastic and thermosetting plastic.
- iii) Arteries and veins.

Q3. A) Write short notes on. (Any 2)**(6)**

- i) Laws of reflection.
- ii) Uses of Alkalies.
- iii) Clinical thermometer.

B) Complete the given paragraph by using appropriate words.**(4)**

(air, larynx, vocal chords, voicebox)

In humans, sound is produced in the _____. While swallowing food, we can feel with our finger a hard bump that seems to move. Two _____ are stretched across the _____ in such a way that it leave a narrow slit between them for the passage of _____.

Q4. A) Answer in one sentence. (Any 4)

(4)

1. What is 4R principle?
2. Define : 'Specific heat'.
3. What is ionic bond?
4. Write chemical name of $\text{Ca}(\text{OH})_2$.
5. Name any 2 abiotic physical factors

B) Solve the following (Any 2)

(4)

1. Complete the following activity by observing the given figure.

What angle will the reflected ray make with the mirror if the angle of incidence is 40° ?

$$\angle \text{QON} = \boxed{}$$

$$\text{Angle of incidence} = \angle i = 40^\circ$$

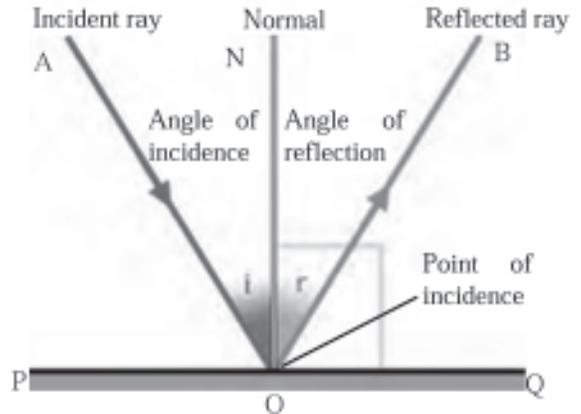
$$\angle \text{NOB} = \angle r = 40^\circ \text{ (according to law of reflection)}$$

$$\angle \text{NOB} + \angle \text{QOB} = \angle \text{QON}$$

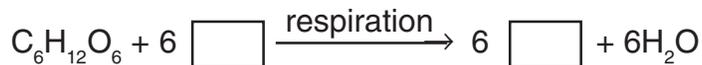
$$40^\circ + \angle \text{QOB} = \boxed{}$$

$$\angle \text{QOB} = 90^\circ - \boxed{}$$

$$\therefore \text{Angle of reflection} = \boxed{}$$



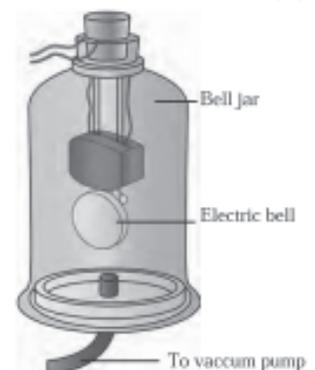
2. How much will the temperature of 68° F be in Celsius and Kelvin?
3. Complete the given chemical equation for respiration by fill in the boxes.



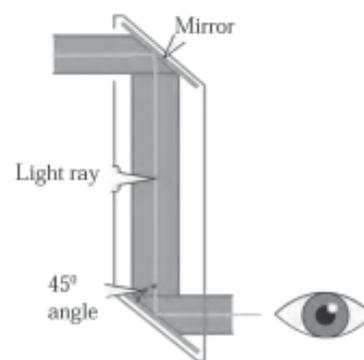
Q5. A) Answer the following. (Any 2)

(6)

1. Observe the given diagram and answer the following questions.
 - a) Identify the given diagram.
 - b) What is the unit of frequency?
 - c) How sound waves are produced in loud speaker?



2. a) Identify the given diagram
b) Which property of light is used in this instrument?
c) Give any one use of it.



3. a) Identify the given instrument
b) Write any 2 functions of blood.



B) Attempt any one.

(4)

1. Explain construction & working of 'Calorimeter' with the help of neat and well labelled diagram.
2. Describe with the help of diagram -
"Formation of covalent bond in H₂O molecule".

