

# SCHOOL-BASED ASSESSMENT (SBA) - 2025

## END-OF-YEAR ASSESSMENT

SUBJECT: SCIENCE

GRADE-7

FINAL TERM

[Paper A: 48 Marks, Paper B: 52 Marks, Total: 100 Marks], Time = 3 hours

School Name: \_\_\_\_\_

Student Name : \_\_\_\_\_

Roll Number : \_\_\_\_\_

Section : \_\_\_\_\_

### OBJECTIVE PART(MCQs)

**Question No.1 :** During photosynthesis, which of the following gases is produced?

- (a) Carbon dioxide (b) Oxygen (c) Nitrogen (d) Hydrogen

**Question No.3 :** Transport of food in plants is known as:

- (a) transpiration (b) respiration (c) translocation (d) evaporation

**Question No.5 :** Which part of the circulatory system is responsible for carrying oxygenated blood to the body?

- (a) Arterioles (b) Veins (c) Capillaries (d) Arteries

**Question No.7 :** The heart is surrounded by a thin, transparent double-layered membrane called a:

- (a) pericardium (b) atria (c) ventricle (d) aorta

**Question No.9 :** Virus capsid is made up of:

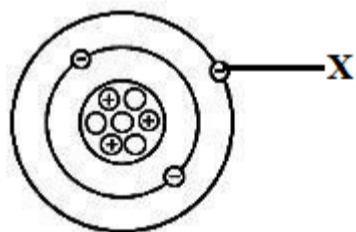
- (a) protein (b) lipids (c) nucleic acid (d) carbohydrates

**Question No.11 :** Why is it important to wash fruits and vegetables before eating?

- (a) To make them sweeter (b) To add flavour  
(c) To prevent infections (d) To increase nutritional value

**Question No.13 :** In the given image the labelled part "X" represents:

- (a) electron  
(b) proton  
(c) neutron  
(d) nucleus

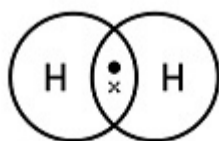


**Question No.15 :** Which physical property of the material is used to obtain petroleum products?

- (a) Melting point (b) Freezing point  
(c) Boiling point (d) Solubility

**Question No.17 :** The chemical bond shown in the image is:

- (a) ionic Bond  
(b) single covalent bond  
(c) double covalent bond  
(d) triple covalent bond



**Question No.19 :** If you dissolve 1 g of sugar in 500 cm<sup>3</sup> of water, how would you classify the solution?

- (a) Concentrated (b) Saturated (c) Supersaturated (d) Dilute

**Question No.21 :** An example of contact force is:

- (a) mechanical force (b) chemical force (c) gravitational force (d) electrostatic force

**Question No.2 :** The protective layer of the root is:

- (a) pericycle (b) epidermis (c) cortex (d) endodermis

**Question No.4 :** Transpiration rates are likely to be higher on \_\_\_\_\_ day.

- (a) a cold and humid (b) a hot and windy  
(c) a rainy and cloudy (d) a calm and foggy

**Question No.6 :** Which of the following processes helps us carry oxygen in our body?

- (a) Respiration (b) Transpiration (c) Digestion (d) Circulation

**Question No.8 :** Which blood vessels have thinner walls and lower blood pressure?

- (a) Arteries (b) Veins (c) Arterioles (d) Aorta

**Question No.10 :** What is the specific role of thymus in the immune system?

- (a) Matures B lymphocytes (b) Matures T lymphocytes  
(c) Filters the blood (d) Produces red blood cells

**Question No.12 :** Covering cuts and wounds with a bandage helps to:

- (a) reduce swelling (b) reduce itching  
(c) prevent infection (d) increase blood flow

**Question No.14 :** The maximum number of electrons in a shell is calculated by:

- (a) 2n (b) 2n<sup>2</sup> (c) n<sup>3</sup> (d) n<sup>4</sup>

**Question No.16 :** Tarnishing is the result of chemical reactions of metals like silver, copper and aluminium with:

- (a) hydrogen (b) oxygen (c) carbon (d) nitrogen

**Question No.18 :** If sodium (Na) has a valency of +1 and chlorine (Cl) has a valency of -1, what is the chemical formula of sodium chloride?

- (a) NaCl (b) Na<sub>2</sub>Cl (c) NaCl<sub>2</sub> (d) NaCl<sub>3</sub>

**Question No.20 :** A solution that has a lower amount of solute compared to the solvent is called:

- (a) concentrated solution (b) dilute solution  
(c) saturated solution (d) unsaturated solution

**Question No.22 :** If you drop a ball from a roof. Which of the following forces causes it to fall to the ground?

- (a) Friction (b) Magnetic (c) Gravity (d) Air resistance

**Question No.23 : The distance between two consecutive crests and troughs is called:**

- (a) wavelength (b) frequency (c) time period (d) amplitude

**Question No.25 : The pitch of sound primarily depends on:**

- (a) amplitude (b) wavelength (c) wave speed (d) frequency

**Question No.27 : What determines the degree of expansion in substances?**

- (a) Nature of substance (b) Change in temperature  
(c) Change in pressure (d) Change in volume

**Question No.29 : The moisture is removed from which item to preserve it?**

- (a) Apple jam (b) Orange juice (c) Burger (d) Pickles

**Question No.31 : The force which keeps the moon in its orbit around the Earth is:**

- (a) magnetism (b) friction (c) gravity (d) electrostatic

**Question No.24 : Longitudinal waves differ from transverse waves because the movement of particles is \_\_\_\_\_ to the direction of wave motion.**

- (a) parallel (b) perpendicular (c) circular (d) random

**Question No.26 : When an object is heated then its thermal energy:**

- (a) increases (b) decreases (c) remains same (d) becomes zero

**Question No.28 : Which of the following materials is a bad conductor of heat?**

- (a) Iron (b) Wood (c) Copper (d) Silver

**Question No.30 : In a drip irrigation system, water is delivered directly to the \_\_\_\_\_ of plants.**

- (a) branches (b) leaves (c) roots (d) seeds

**Question No.32 : How many days does Earth take to complete its one revolution around the Sun?**

- (a) 365 days (b) 465 days (c) 565 days (d) 665 days

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## SUBJECTIVE PART(CRQs)

**Question No: 33**

**a ) Define Transpiration. (2 Marks)**

**b ) Explain the role of xylem and phloem in plants. (4 Marks)**

**c ) Describe the importance of transpiration. (4 Marks)**

**Question No: 34**

**a ) Define respiration. (2 Marks)**

**b ) Explain the types of respiration. (4 Marks)**

**c ) Write only two differences between breathing and respiration. (2+2=4 Marks)**

**Question No: 35**

**a ) How elements are arranged in groups and periods of the periodic table? (3 Marks)**

**b ) Write the range of atomic numbers in the first five periods. (5 Marks)**

**c ) Write the number of electrons in K, L, M, and N shells. (4 Marks)**

**Question No: 36**

**a ) Write any three effects of force. (3 Marks)**

**b ) A motor car covers 200 m in 10 seconds. If the speed is uniform, find its value. (3 Marks)**

**c ) Define frictional force and give two examples. (4 Marks)**

**Question No: 37**

**a ) What type of force is responsible for the rotation of moons around the Earth? (2 Marks)**

**b ) Why do constellations appear during certain parts of the year? (4 Marks)**