

SIDDEEQ PUBLIC SCHOOL**MODEL PAPER****SCIENCE****Max. Marks: 30****ADMISSION to CLASS: 8*****(Note: Erasing, cutting and over writing is not allowed in Q.1, 2 & 3)*****Q.1 Choose the best option.**

- (i) If we heat one end of the rod and its other end becomes hot after sometime, this mode of heat transfer is called:

(A) Conduction (B) Convection
(C) Radiation (D) Transmission

- (ii) Which of the following does not represent a chemical change?

(A) Burning of leaves (B) Spoilage of food
(C) Turning brown of freshly cut banana (D) Freezing of water

- (iii) The electronic configuration of Phosphorus is:

(A) K: 2 L: 10 M: 3 (B) K: 2 L: 13
(C) K: 8 L: 7 (D) K: 2 L: 8 M: 5

**31
15 P**

- (iv) What is the tendency of oxygen atom to get stable?

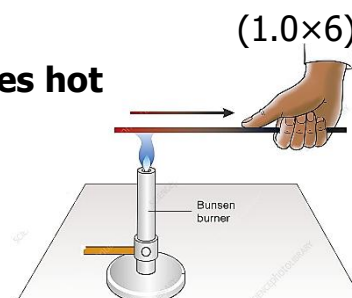
(A) It loses or shares 2 electrons. (B) It gains or share 1 electron.
(C) It gains or shares 2 electrons (D) It loses or shares 1 electron

- (v) What is the main purpose of the veins in a leaf?

A) To transport water and nutrients. B) To support the leaf structure.
C) To regulate gas exchange. D) To protect against pathogens.

- (vi) Where does the exchange of oxygen and carbon dioxide take place in the respiratory system?

A) Alveoli B) Trachea
C) Bronchi D) Larynx

**Q.2 Fill in the blanks.****(1.0×6)**

- (i) The upward movement of water in the xylem due to transpiration is known as _____.

- (ii) Vaccination stimulates the development of _____ immunity by exposing the immune system to weakened or inactive forms of pathogens.

- (iii) In methane, one atom of carbon shares its _____ electrons with four atoms of hydrogen to form _____ Covalent bonds.

- (iv) Loudness of sound depends upon the _____ of the sound wave.

- (v) The process of food preservation in which bacteria is allowed to grow against the harmful bacteria is called _____.

- (vi) In a longitudinal wave, the particles of the medium vibrate _____ to the direction of the wave.

Q.3 Decide whether the given statements are True 'T' or False 'F'.**(1.0×6)**

- (i) Electromagnetic waves do not require medium to travel, e.g., sound waves. **T / F**

- (ii) On heating liquids expand more than solids. **T / F**

- (iii) If the supersaturated solution is cooled the solute becomes less soluble. **T / F**

- (iv) Photosynthesis takes place in mitochondria and respiration takes place in chloroplasts. **T / F**

- (v) Xylem is dead tissue while phloem is living tissue. **T / F**

- (vi) Arteries carry blood away from the heart except pulmonary artery. **T / F**

Q.4 Answer the following questions. (2.0×6)

(i) Which type of bond is present in Sodium Chloride? Justify your answer.
Type of bond: _____
Justification: _____

(ii) Explain heating of water by convection.



(iii) Explain the function and composition of blood.
Function: _____

Composition: _____

(iv) Justify that the process of combustion is an example of a chemical change.

(v) A cyclist moves 10km in east for 1 hour and 5km in north for 30 minutes to reach finish line. Find his average speed in km/h.

(vi) Why the thickness of the tubes through which blood flows is different?

