

SIDDEEQ PUBLIC SCHOOL**ENTRY TEST ... 49****SCIENCE****Max. Marks: 30****ADMISSION to CLASS: 8**

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(Note: Erasing, cutting and over writing is not allowed in Q.1, 2 & 3)**Q.1 Choose the best option.****(1.0×6)****(i) The root system mainly helps the plant to:**

- (A) Make food (B) Absorb water and minerals
(C) Make flowers (D) Produce seeds

(ii) Rusting of iron objects can be prevented by:

- (A) Heating (B) Washing (C) Galvanizing (D) Dusting

(iii) The lower chambers of the heart are called:

- (A) Aorta (B) Capillaries (C) Atria (D) Ventricles

(iv) In which period of the periodic table Oxygen is located?

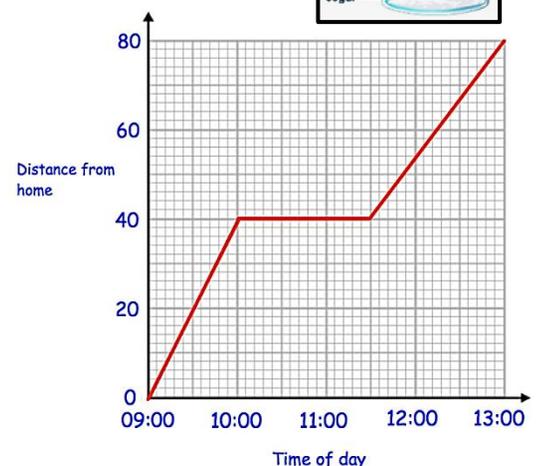
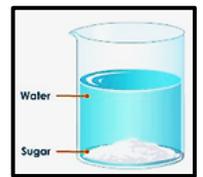
- (A) 1 (B) 2 (C) 3 (D) 4

(v) If more sugar is added to water and it stops dissolving, the solution becomes:

- (A) Dilute (B) Saturated
(C) Unsaturated (D) Clear

(vi) Ali drove 80 km from his home for picnic, for how long Ali stopped during his journey?

- A) 1 hour
B) 1.5 hours
C) 2 hours
D) 2.5 hours

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

- (i)** The pale-yellow liquid part of the blood is called _____.
- (ii)** Antibodies are special _____ which flow in blood and can recognize and kill viruses and bacteria.
- (iii)** Flammability is a _____ property, whereas, boiling point is a _____ property.
- (iv)** Helium and Neon belong to _____ group.
- (v)** If a boy runs 200m in 20 seconds, his speed is _____ m/s.
- (vi)** _____ waves are electromagnetic waves.

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

- (i)** Transpiration helps in cooling the plant. **T / F**
- (ii)** Vaccination weakens the immune system. **T / F**
- (iii)** 100°C is equal to 273 K. **T / F**
- (iv)** Apple jam is preserved by the method of pasteurization. **T / F**
- (v)** If the sound source has larger surface to vibrate, it produces louder sound. **T / F**
- (vi)** Group VIA elements have valency 3 because they can gain or share 3 electrons. **T / F**

Q.4 Answer the following questions.

(2.0×6)

(i) Briefly explain the transport of food in plants.

(ii) Explain the distribution of electrons in Phosphorus atom by using $2n^2$ formula. (at. no.: 15; mass no.: 31)

(iii) How increase and decrease in pressure affects the solubility of gases?*Increase in pressure:* _____*Decrease in pressure:* _____**(iv) A cyclist moves 30 km in east for 2 hours and 15 km in north for 30 minutes to reach finish line. Find his average speed in km/h.**

<i>Formula:</i>	<i>Solution:</i>

(v) Write the functions of the components of blood.

Components	Function
<i>Red blood cells</i>	
<i>White blood cells</i>	
<i>Platelets</i>	
<i>Plasma</i>	

(vi) Label the given figure of human heart.