

**ENTRY TEST ... 49**  
**ADMISSION TEST TO GRADE: 8**  
**SCIENCE**  
**KEY**

**Q. 1. Choose the best option.**

- (i) B      (ii) C      (iii) D      (iv) B      (v) B      (vi) B

**Q. 2 Fill in the blanks.**

- (i) Plasma                      (ii) Proteins                      (iii) Chemical; Physical  
 (iv) VIIIA/18                      (v) 10                      (vi) light/x-rays/microwaves

**Q. 3 True/False**

- (i) T      (ii) F      (iii) F      (iv) T      (v) T      (vi) F

**Q. 4 Answer the following questions.**

- (i) Leaves prepare food for plant by the process of photosynthesis. The phloem transports food in the form of sugar solution from leaves to all other parts of the plant. Sugar solution can go up and down the phloem at the same time.
- (ii)  $2n^2$  formula is used to find the number of electrons which can be accommodated in a shell. In the formula 'n' is the number of shell and according to the formula distribution of electrons in first three shells is: K=2, L=8, M=18. Phosphorus has 15 electrons which can be accommodated as: K=2, L=8 and M=5.
- (iii) Increase in pressure increases the solubility of gases.  
 Decrease in pressure decreases the solubility of gases.

(iv) Formula:

$$\text{Average Speed} = \frac{\text{Total Distance}}{\text{Total Time}}$$

Solution: Find Total Distance

$$\begin{aligned} \text{Total distance} &= 30 \text{ km} + 15 \text{ km} \\ &= 45 \text{ km} \end{aligned}$$

Find Total Time

$$\begin{aligned} \text{Total time} &= 2 \text{ hours} + 0.5 \text{ hours} \\ &= 2.5 \text{ hours} \end{aligned}$$

$$\text{Average Speed} = 45 / 2.5$$

$$= 18 \text{ km/h}$$

(v)

<b>Components</b>	<b>Function</b>
<i>Red blood cells</i>	They carry oxygen from lungs to rest of the body.
<i>White blood cells</i>	Protect the body from germs and harmful things. They make immune system.
<i>Platelets</i>	Stop bleeding by forming clots.
<i>Plasma</i>	It carries water, nutrients, gases, wastes and chemicals from one part of the body to another.

(vi)

