

Chapter- 1

Worksheet-2

1. The opening and closing of the stomatal pore depends upon
 - (a) oxygen
 - (b) temperature
 - (c) water in guard cells
 - (d) concentration of CO₂ in stomata

2. Oxygenated blood reaches heart by
 - a. Pulmonary artery
 - b. Pulmonary vein
 - c. Aorta
 - d. Vena cava

3. Veins have valves to
 - a. Prevent back flow of blood
 - b. Prevent the collapse of the vein
 - c. Maintain its position in the body
 - d. None of these

4. Which is the correct sequence of air passage during inhalation?
 - (a) Nostrils → larynx → pharynx → trachea → lungs
 - (b) Nasal passage → trachea → pharynx → larynx → alveoli
 - (c) larynx → nostrils → pharynx → lungs
 - (d) Nostrils → pharynx → larynx → trachea → alveoli

5. What is normal blood pressure in humans?
 - a. 120/80 mm of Hg
 - b. 130/60 mm of Hg
 - c. 140/70 mm of Hg
 - d. 140/ 90 mm of Hg

6. Choose the forms in which most plants absorb nitrogen
- (i) Proteins
 - (ii) Nitrates and Nitrites
 - (iii) Urea
 - (iv) Atmospheric nitrogen
- (a) (i) and (ii)
(b) (ii) and (iii)
(c) (iii) and (iv)
(d) (i) and (iv)
7. Which is the first enzyme to mix with food in the digestive tract?
- (a) Pepsin (b) Cellulase
(c) Amylase (d) Trypsin
8. The filtration units of kidneys are called
- (a) ureter (b) urethra
(c) neurons (d) nephrons
9. During respiration exchange of gases take place in
- (a) trachea and larynx (b) alveoli of lungs
(c) alveoli and throat (d) throat and larynx
10. When a few drops of iodine solution are added to rice water, the solution turns blue- black in colour. This indicates that rice water contains:
- (a) fats
(b) complex proteins
(c) starch
(d) simple proteins
11. How do the guard cells regulate opening and closing of stomatal pores?

12. If a plant is releasing carbon dioxide and taking in oxygen during the day, does it mean that there is no photosynthesis occurring? Justify your answer.
13. Explain holozoic nutrition in amoeba. Differentiate between nutrition in amoeba and paramecium.
14. Why do herbivores have a larger small intestine than carnivore?
15. What is villi? How do villi help in absorption?
16. How do leaves of plants help in excretion?
17. How does gaseous exchange take place in human being?
18. What is the advantage of having four chambered heart?
19. Describe the process of urine formation in kidneys.
20. Explain the mechanism of blood clotting.