

**DELHI PUBLIC SCHOOL JAMMU**

**SESSION-2025-26**

**MONTH: MAY**

## ASSIGNMENT

**CLASS: X**

**SUB: BIOLOGY**

**MARKS-18**

**1. Which chamber of the heart receives deoxygenated blood from the body? 1**

- a) Left atrium                      b) Right atrium
- c) Left ventricle                      d) Right ventricle

**2. Which component of blood helps in clotting?** **1**

- a) Plasma                      b) RBCs
- c) WBCs                     d) Platelets

3. The \_\_\_\_\_ is a network of tiny blood vessels located at the beginning of a nephron. 1

- a)Renal calyces                      b)Renal pyramid  
c)Bowman's capsule                d)Glomerulus

**Following question consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:**

- A. Both A and R are true and R is the correct explanation of A.**  
**B. Both A and R are true and R is not the correct explanation of A.**  
**C. A is true but R is false.**  
**D. A is False but R is true.**  
**E. Both A and R are false.**

**4. Assertion (A):** Dialysis is required in case of kidney failure. **1**

**Reason (R):** Dialysis helps to remove nitrogenous wastes from the body.

5. Name the types of blood vessels and write their functions. 2

**6. Explain the structure and function of a nephron.** **3**

7. Explain the human circulatory system in detail. Describe its main components and types of circulation. 5

8. Meena studied the structure of a nephron in her biology class. Her teacher explained that filtration takes place in Bowman's capsule, and the filtrate passes through a long tubule where useful substances are reabsorbed. Finally, the remaining waste forms urine, which travels through the ureter to the bladder.

**i) Which part of the nephron is responsible for water reabsorption?** **1**

**ii) Name the process by which useful substances are taken back into the blood. 1**

**iii) What is the path of urine from the kidneys to outside the body?** **2**

Or

## What is the composition of normal human urine?

