INDIAN SCHOOL SOHAR
SET-1
PERIODIC TEST II (2023-24) - SCIENCE

## General Instructions:

- This question paper consists of 10 questions.
- Section A consists of 6 objective-type questions carrying 1 mark each.
- Section B consists of one very short question carrying 2 marks, one short answer type question carrying 3 marks, and one long answer type question carrying 5 marks.
- Section C consists of a case-based unit of assessment of 4 marks with sub-parts


## SECTION A

Select and write one most appropriate option out of the four options given for each of the following questions 1 to 6:

1. Name the process that generates a force that pulls up the water from the soil to reach the stem and leaves of plants.
a) Respiration
b) Transpiration
c) Photosynthesis
d) Excretion
2. Seeds of drumstick and maple are carried to long distances by wind because they possess
a) spiny seeds
b) large and hairy seeds
c) long and ridged fruits
d) winged seeds
3. Identify the label marked $\mathbf{A}$ that carries blood away from the heart.
a) aorta
b) superior vena cava
c) ventricle
d) pulmonary vein
4. Sexual reproduction involves

a) male gametes
b) female gametes
c) either male or female gametes
d) both male and female gametes

## Assertion Reason:

5. Assertion (A): In plants, vascular tissues are the pipe-like vessels that transport water and food.

Reason (R): Xylem tissues transport the food material to all parts of the plant.
a) Both $A$ and $R$ are true and $R$ is the correct explanation of $A$.
b) Both $A$ and $R$ are true but $R$ is not the correct explanation of $A$.
c) $A$ is true but $R$ is false.
d) $A$ is false but $R$ is true.
6. Assertion (A): Arteries have a thick elastic wall.

Reason (R): In arteries, blood flow is rapid and at high pressure.
a) Both $A$ and $R$ are true and $R$ is the correct explanation of $A$.
b) Both $A$ and $R$ are true but $R$ is not the correct explanation of $A$.
c) $A$ is true but $R$ is false.
d) $A$ is false but $R$ is true.

## SECTION B

7. a) State one advantage of vegetative propagation.
b) Name the process of asexual reproduction shown by the following organisms:
i) yeast
ii) algae.
8. Differentiate between arteries and veins. (three points)
9. Observe the given figure and answer the following questions.
(a) What is pollination?
(b) Identify the type of pollination shown in label $\mathbf{C}$ and define it.
(c) Give one difference between unisexual and bisexual flowers with one example for each.


## SECTION C

10. Rohan's grandpa was diagnosed with kidney failure and rushed to hospital. He was supported by an artificial kidney till he got a suitable donor. Soon he underwent a kidney transplantation and was recovered.
a) What is excretion?
b) Suggest any one way by which Rohan's grandpa can get relief in case of kidney failure.
c) Why do we need to remove waste products from our body from time to time?

Or
Write the name of four organs of the human excretory system in their correct sequence.

