

## Jars Education

Shop no. 2,3,4 hendre pada Badlapur west thane

## Time: 1 Hour 30 Minute

STD 10 Science

Total Marks: 50

Chapter Based Test

SECTION A

* Select and write one most appropriate option out of the four options given [7]				
1.	Choose the correct path of urine in our body:			
	(A) Kidney $\rightarrow$ ureter $\rightarrow$ urethra $\rightarrow$ urinary bladder.	(B) Kidney → urinary bladder → urethra → u <mark>ret</mark> er.	(C) Kidney → ureters →urinary bladder → urethra.	(D) Urinary bladder $\rightarrow$ kidney $\rightarrow$ ureter $\rightarrow$ urethra.
2.	The wave of expansion of an artery when blood is forced into it is called:			
	(A) Flow.	(B) Heart beat.	(C) Pulse.	(D) Ticking.
3.	What prevents the backflow of blood inside the heart during contraction?			
	(A) Thick muscular walls of ventricles.	(B) Valves.	(C) Thin walls of atria.	(D) All of the ab <mark>ove</mark> .
4.	<ul> <li>The phloem tissue in plants is responsible for the transport of:</li> <li>a. Water.</li> <li>b. Water and minerals.</li> <li>c. Sugar.</li> <li>d. All of the above.</li> </ul>			
5.	<ul> <li>Which one of the following does not have valves?</li> <li>a. Heart.</li> </ul>			
	b. Arteries. c. Capillaries. d. V <mark>eins.</mark>			
6.	The correct order of steps occurring in nutrition in animals is:			
a. Ingestion $\rightarrow$ Absorption $\rightarrow$ Digestion $\rightarrow$ Assimilation $\rightarrow$ Egestion. b. Ingestion $\rightarrow$ Digestion $\rightarrow$ Assimilation $\rightarrow$ Absorption $\rightarrow$ Egestion.				
	d. Ingestion $\rightarrow$ Assimilation $\rightarrow$ Digestion $\rightarrow$ Assimilation $\rightarrow$ Egestion.			
7.	Water absorption through roots can be increased by keeping the potted plants:			
	a. In the shade.			
	b. In dim light.	n		
	d. Covered with a polythene bag.			
*	Assertion - Reasoning based questions. [3]			
8.	For two statements are given- one labelled Assertion (A) and the other labelled Reason			

(R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as

given below:

- a. Both A and R are true and R is correct explanation of the assertion.
- b. Both A and R are true but R is not the correct explanation of the assertion.
- c. A is true but R is false.
- d. A is false but R is true.

**Assertion:** Blood takes up oxygen from the alveolar air and release  $CO_2$  during exchange.

**Reason:** The concentration of  $O_2$  is more in alveolar air.

- 9. For two statements are given- one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below:
  - a. Both A and R are true and R is correct explanation of the assertion.
  - b. Both A and R are true but R is not the correct explanation of the assertion.
  - c. A is true but R is false.
  - d. A is false but R is true.

**Assertion:** Trachea does not collapse, when there is no air in it.

**Reason:** Trachea is supported by cartilage.

- 10. For two statements are given- one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below:
  - a. Both A and R are true and R is correct explanation of the assertion.
  - b. Both A and R are true but R is not the correct explanation of the assertion.

[2]

[2]

[10]

- c. A is true but R is false.
- d. A is false but R is true.

Assertion: Photosynthesis takes place in green parts of the plants.

**Reason:** Photosynthesis always takes place in leaves.

- \* Fill in the blank with correct answer.[1 Mark each]
- 11. The organs which extract the nitrogenous wastes from the blood are \_
- 12. Bile juice is secreted by \_\_\_\_\_\_.

## \* Answer the questions.[1 Mark each]

- 13. What is common for Cuscuta, ticks and leeches?
- 14. Name the pores in a leaf through which respiratory exchange of gases takes place.

SECTION B

- \* Answer the following question. :
- 1. Where is bile juice produced?
- 2. State the function of chlorophyll.
- 3. Explain how, it would benefit deep sea divers if humans also had gills.
- 4. Write a chemical equation to show the process of photosynthesis in plants.
- 5. With which human organ systems (or human systems) are the following associated?
  - a. Vena cava.
  - b. Glomerulus.
  - c. Alveoli.
  - d. Villi.





4. Sanjeev compared the results of the activity with a new pot to conirm his indings. Which of the following best represents the new pot?

