

GREENLAWNS SCHOOL, WORLI

FINAL EXAMINATION: 2016-17

*General Science*

Std: VII

Marks: 80

Date: / /2017

Time: 1½ hrs

---

Carefully read this paper in the first ten minutes. Your answers should be concise and contain scientific terms. All answers have to be written on the answer script.

---

Q.I) Fill in the blanks: [10]

1. One of the earliest devices for measuring time was the \_\_\_\_\_
2. \_\_\_\_\_ movement propels the food into stomach.
3. The pollen tube enters the ovule through a small opening called \_\_\_\_\_
4. A salt is a substance formed by the \_\_\_\_\_ of an acid with a base.
5. The red colour of the blood is due to the respiratory pigment called \_\_\_\_\_
6. The element common to all acids is \_\_\_\_\_
7. The last molar in each jaw is commonly known as the \_\_\_\_\_ teeth.
8. \_\_\_\_\_ act as filters in kidney.
9. \_\_\_\_\_ records the distance moved by the vehicle.
10. Flowers which contain both the male and female reproductive organs are called \_\_\_\_\_

Q.II) Name the following: [10]

1. The enzyme present in stomach which breaks down the proteins.
2. The largest blood vessel of the human body.
3. The to and fro motion of simple pendulum.
4. False feet of amoeba which helps it engulf its prey.
5. An organism which reproduces by fragmentation.
6. A device which measures time up to one-tenth of a second.
7. Two chemicals present in fire extinguishers.
8. Two vascular tissues in plants which transport substances.

Q.III) State whether the following statements are true or false. If false, correct the statement: [5]

1. Lungs excrete wastes such as urea and excess water.
2. Average speed is the measured value of speed over a measurable interval of time.
3. Hydra and yeast reproduce by spore formation.
4. A bee sting can be neutralised by washing with hydrochloric acid.
5. Amoeba throws out undigested food through contractile vacuole.

Q.IV) Give difference between the following pairs on the basis of what is indicated in the brackets: [5]

1. Systole and diastole (phase of the heart)
2. Liver and pancreas (juice secreted)
3. RBC and WBC (function)
4. Stock and scion (meaning)
5. Uniform and non-uniform motion (example)

Q.V) Define the following: [5]

1. Chyme
2. Time period of oscillation
3. Haemodialysis
4. Zygote
5. Pulse

Q.VI) Give scientific reasons for the following: [5]

1. Bases are also known as antacids.
2. Pollination is an important mechanism of sexual reproduction in plants.
3. Grass eating animals are called ruminants.
4. Arteries have thick elastic walls.
5. Transpiration is vital for all plants.

Q.VII) Answer in short: [14]

1. What are the disadvantages of natural vegetative propagation?
2. What is double circulation?
3. 'All alkalis are bases, but all bases are not alkalis.' Comment on this statement.
4. A train takes 2 hr to reach from station A to B, and then 3 hr to return back from station B to A. The distance between the two stations is 200 km. Find average speed.
5. What are villi? State its function.
6. Draw a distance-time graph for an object moving with a constant speed.
7. Name the end products of digestion of carbohydrates, proteins and fats.

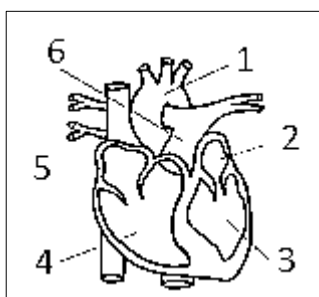
Q.VIII) Answer the following diagram based questions:

1. The figure below represents one of the methods of asexual reproduction in plants:



- a. Name this method of vegetative propagation. [1]
- b. How do plants propagate by this method? [2]
- c. Give two examples of such plants. [1]
- d. Define vegetative propagation. [1]

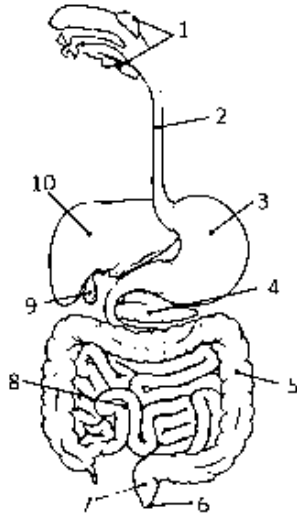
2. The figure below represents human heart. Observe and answer the questions:



e. What is septum?

- a. Label parts 1 to 6. [3]
  - b. Mention the kind of blood flowing in part 2, 3, 4 and 5. [1]
  - c. What is the function of the heart? [1]
  - d. Name the physician who discovered the circulation of blood. [½]
- e. What is septum? [½]

3. Observe the diagram given below and answer the following questions:



- a. Label the parts 2, 4, 6, 7 and 9. [2½]
- b. Name the enzyme present in part 1. [1]
- c. What is the role of mucus in part 3? [1]
- d. What is the function of parts 5, 8 and 10? [3]
- e. Name the sub-parts of 8. [1½]

Q.IX) Draw neat diagrams of the following:

- a. Human excretory system and label the following parts – kidney, ureter, urinary bladder and urethra. [3]
- b. Binary fission in amoeba. [3]

\*\*\*\*\*