

MARTHOMA RESIDENTIAL SCHOOL, THIRUVALLA
SECOND TERMINAL EXAMINATION 2017-2018
BIOLOGY

STD: VIII

140

Time: 2Hrs
Marks: 80

SECTION I (40 marks)

Question I

a. Name the following.

(10)

1. The protein found on the surface of RBC.
2. The cluster of hormone secreting cells present in pancreas.
3. The hormone which energises a person to face any situation.
4. Organism which breakdown dead organic material.
5. The national park where tigers are protected.
6. The bleeding caused due to the lining of the uterus breakdown.
7. The collective name of the male sex hormones.
8. The hormone produced by pituitary gland which activate sex hormone in male and female.
9. The equipment used to measure blood pressure.
10. The protective covering of heart.

b. Define the following.

(5)

1. Hormone.
2. Predation
3. Cardiovascular system.
4. Symbiosis.
5. Blood pressure.

c. Give any one point of difference between the following.

(10)

1. Endocrine and exocrine glands.
2. Blood and lymph.
3. Venacava and aorta
4. Open and closed circulatory system.
5. Systole and diastole

d. Given below are five sets of four terms each. Find out the odd one and give reason. (10)

1. Left auricle, left ventricle, pulmonary vein, pulmonary artery.
2. Adrenal gland, pancreas, salivary gland, pituitary gland.
3. Lion, bacteria, rice plant, sunlight.
4. Grass hopper, deer, snake, goat.
5. Glucagon, Pituitary gland, adrenaline, insulin.

e Give the exact location for the following.

(5)

1. Bicuspid valve.
2. Pituitary gland.
3. Tonsils.
4. Heart.
5. Adrenal gland

SECTION 2 (40 marks)

Question 2

a. Give reason for the following.

(6)

1. We experience painful swellings in our groins or in the axils of arms when we got a boil or injury in the limbs.
2. Ventricles are large chambers and possess thick and more elastic and muscular walls.
3. Even in the absence of nucleus we call RBC's as cells.

b. Give any one function for the following.

(4)

1. Valve.
2. RBC
3. Septum
4. Lymph

Question 3

a.

(5)

1. Draw well labelled diagrams of
 - a artery
 - b vein
 - c capillary
2. Give any one point of difference between a and b.
3. In which one of the above vessels does the exchange of nutrients, gases and waste products actually takes place. Why?

b Answer the following.

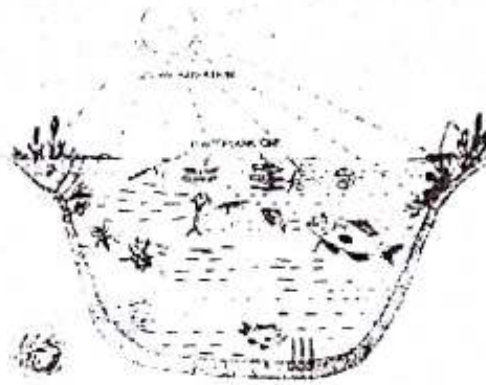
(5)

1. Write the steps involved in clotting of blood.
2. Mention the two ways by which WBC provide immunity.

Question 4

a. Study the following diagram and answer the questions that follow.

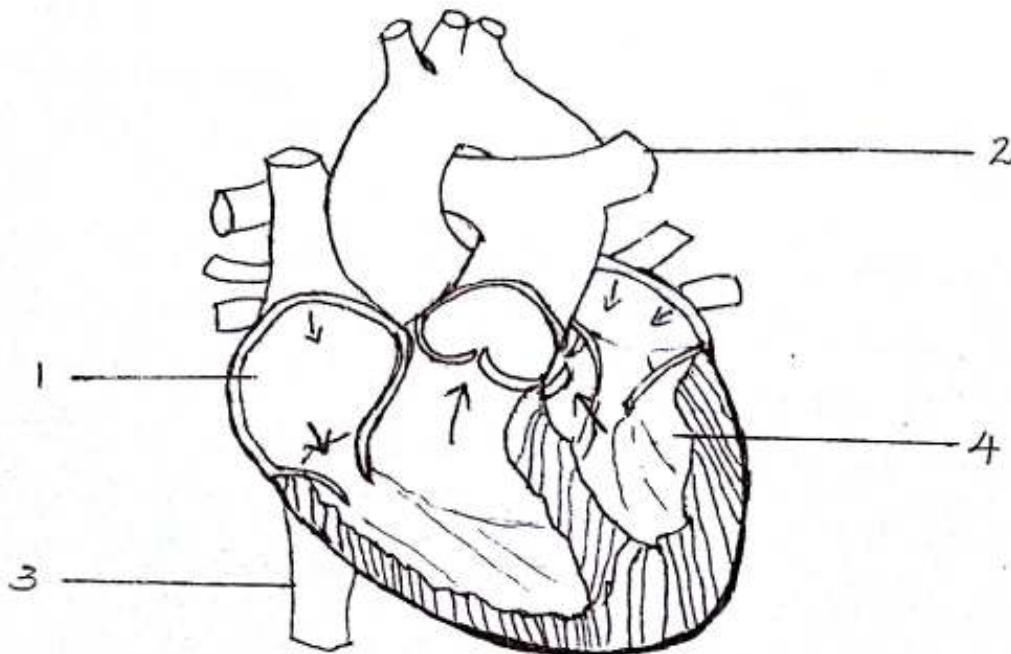
(5)



1. Identify the above shown ecosystem.
2. Define the term ecosystem.
3. Mention the components of an ecosystem.
4. Write a food chain found in this ecosystem.
5. Give an example for any other ecosystem.

b. Given below is a diagram of human heart showing its internal structure. Study the same and answer the questions that follow.

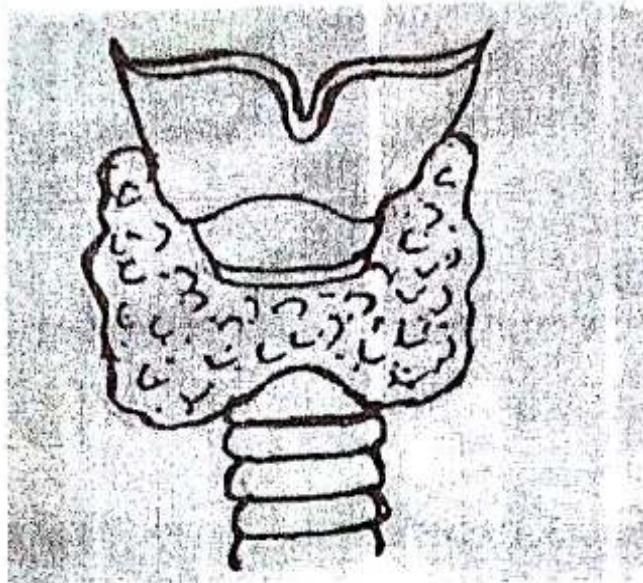
(5)



1. Label the parts 1-4.
2. Which type of blood is carried by the blood vessel 2?
3. Name the blood vessel which takes the blood from heart to different parts of the body?
4. Which chamber of the heart receives deoxygenated blood from the body?

Question 3

a The diagram given below represents the location and structure of an endocrine gland. Study the same and answer the questions that follow. (5)



1. Name the endocrine gland shown in the diagram.
2. Name the secretion of the gland which regulates the metabolic rate.
3. Name the mineral element required for the synthesis of the above mentioned hormone.
4. Name the disease caused due to the undersecretion of the above mentioned hormone in children.
5. Mention any two symptoms caused due the hypersecretion of the above mentioned hormone.

b. Write short note on:

(5)

1. Cardiac arrest and CPR
2. Purpura
3. Stress management
4. Tissue fluid
5. Abiotic components