

agaram.lk

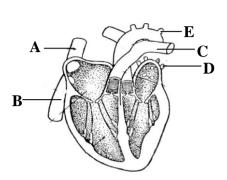
Agaram.LK - Keep your dreams alive

- (6) The afferent arteriole of a nephron is formed,
  - From the renal vein.
     From the renal artery.

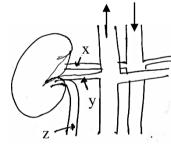
- 2) From the aorta.
- 4) From the inferior venacava.
- (7) A disease caused by inhaling polluted air is,
  1) Bronchitis 2) Hepatitis 3) Gastritis
- 4) Amoebiasis

(8) False statement about the blood vessels A, B, C, D and E.

- 1) Concentration of oxygen is higher in D than C.
- 2) Concentration of oxygen is higher in A and B than D.
- 3) Concentration of  $CO_2$  is higher in C than E.
- 4) Oxygenated blood is present in D and E.



(9) What is the relative concentration of urea in x, y, and z,



Agaram.LK - Keep your dreams alive!

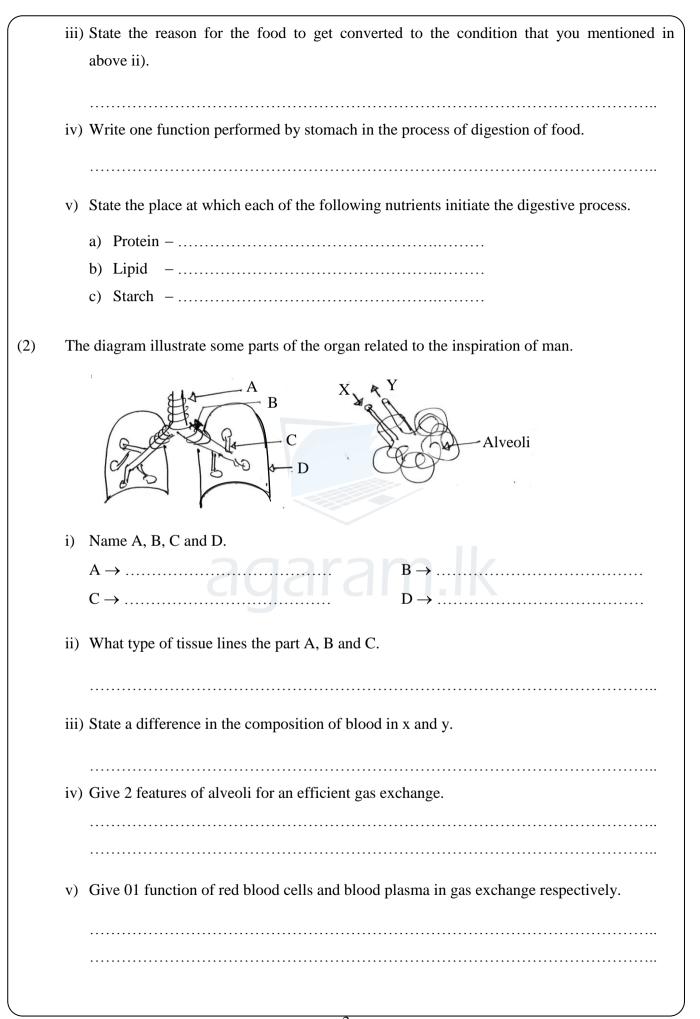
<u> </u>		х	У	Z
	1)	High	Low	Low
	2)	High	Low	High
	3)	Low	High	High
	4)	Low	High	Low

- (10) Lactic acid is produced during,
  - 1) During aerobic respiration in an animal cell.
  - 2) During anaerobic respiration in a plant cell.
  - 3) During aerobic respiration in a plant cell.
  - 4) During anaerobic respiration in an animal cell.

## **Structured Essay Questions**

(1)	Given below is a sketch of a part of the	A					
	digestive system.						
	i) Name the two parts depicted by A and B in	liver $\leftarrow$ stomach					
	the diagram here.						
	Α	B					
	B	pancreas					
	ii) Is the food that reach the place B, acid, basic of	Is the food that reach the place B, acid, basic or neutral?					
	2						



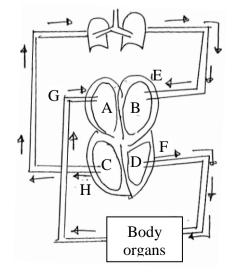


Agaram.LK - Keep your dreams alive

agaram.lk

(3)		ebrum, cerebellum, medulla oblongata, thalamus and hypothalamus can be identified as the or parts of the human brain.						
		From the parts given above, write down the two parts that are found at the hind parts of the						
		human brain.						
	ii)	State separately, which part from the four parts given above, perform the following actions.						
		a) Controlling the memory $\rightarrow$						
		b) Controlling the heartbeat $\rightarrow$						
		c) Controlling of respiration $\rightarrow$						
		d) Co-ordination of muscle movements $\rightarrow$						
		e) Regulation of muscle movements $\rightarrow$						
		f) Identifying sensations $\rightarrow$						
	iii)	Reflex actions are made by the organs brain and the spinal cord.						
		By which organ, is it reflex actions need instant responses?						
		b) State by which organ the following reflex action are made.						
		i) The adjustment of the pupil of the eye as a result of the eye receiving strong and weak light.						
		ii) Taking away the hand when it comes into conact with something hot.						
		Essay Questions						
	_							

(1) This sketch diagram shows a double circulation system of a human.



Agaram.LK - Keep your dreams alive!

- i) What is meant by double circulation.
- ii) Name A to H.
- iii) Deoxygenated blood is traveled to lungs by "H" vessel. How is the structure of the lungs make to purify blood effectively.
- iv) Explain briefly why the muscle of left ventricle is thicker than the right ventricle.



4

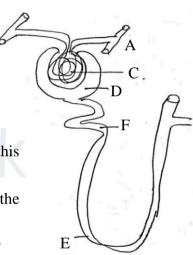
- v) Name,
  - a) The vessel that collects deoxygenated blood from the head and the anterior region of the body that takes to right auricle.
  - b) The vessel that collects deoxygenated blood from kidneys, liver, digestive system and legs that takes to the right auricle.
  - c) The vein which carries deoxygenated blood from right ventricles to lungs to purify.
  - d) The valve that separate left auricle and left ventricle.
- vi) Mention three diseases that disturb the function of the heart.
- vii) What is heart beat?
- viii) Describe in brief,

Agaram.LK - Keep your dreams alive!

- a) Pulmonary circulation.
- b) Systemic blood circulation.
- (2) The process of removal of harmful toxic substances or metabolic waste products from the body is called excretion.

В

- i) What is this structure called?
- ii) Name the labeled parts from A F.
- iii) What is the vein that carries oxygenated blood in to the kidney?
- iv) What do you called the U shaped loop like segment of the tubule?
- v) What happens to the glucose, amino acids which enter this structure along with the filtrate?
- vi) Name 2 large molecules which cannot pass through the glomerulus.
- vii)Name the major nitrogenous waste product in human body?
- viii) Draw a labeled diagram of human excretory system.
- ix) Name the major excretory products in human body.
- x) Write the constituents of urine.



agaram.lk

