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CBSE 10th Life Processes Unsolved Paper

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SECTION - A

Q.1. The breakdown of pyruvate to give carbon dioxide, water and energy takes place in

- (a) cytoplasm
- (b) mitochondria
- (c) chloroplast
- (d) nucleus

Q.2. The xylem in plants are responsible for

- (a) transport of water
- (b) transport of food
- (c) transport of amino acids
- (d) transport of oxygen

Q.3. Name the part of alimentary canal receiving bile from the liver.

- (a) Oesophagus
- (b) Stomach
- (c) Small intestine
- (d) Large intestine

Q.4. Amoeba captures food with the help of –

- (a) teeth
- (b) cilia
- (c) pseudopodia
- (d) tentacles

Q.5. In which of the following group/ groups of animals, heart does not pump oxygenated blood to different parts of the body?

- (a) Pisces only
- (b) Amphibians only
- (c) Amphibians and reptiles only
- (d) Pisces and amphibians.

Q.6. When air is blown from mouth into a test – tube containing lime water, the lime water turned milky due to presence of –

- (a) oxygen
- (b) nitrogen
- (c) water vapours
- (d) carbon – dioxide

Q.7. The autotrophic mode of nutrition requires –

- (a) Chlorophyll
- (b) Sunlight
- (c) Carbon – dioxide & water
- (d) all of the above

Q.8. Trachea do not collapse when there is not much air because they are –

- (a) thick and muscular
- (b) having cartilaginous rings
- (c) Have valves
- (d) supported by larynx.

Q.9. Which of these is not a part of the small intestine?

- a) Duodenum
- (b) Jejunum
- (c) Ileum
- (d) Rectum

Q.10. Give one example each of saprophytic and parasitic nutrition.

SECTION B

Q.11. “If there were no algae there would be no fish in the sea”. Comment.

Q.12. Which of the organs perform the following functions in humans? i. Absorption of food. ii. Absorption of water

Q.13. Autotrophs synthesis food for the living world. Justify this statement in one sentence only interconnecting autotrophs and heterotrophs.

Q.14. Why are glomeruli considered as dialysis bags?

Q.15. Name the respiratory organs of (i) fish (ii) mosquito (iii) earthworm.

Q.16. When we are asleep we are not performing any activity still our life processes are going on. Why?

Q.17. If you compare your rate of breathing by feeling your chest movement with the number of times a fish opens and closes its mouth. Which will be higher and way?

SECTION - C

Q.18. What are differences between aerobic and anaerobic respiration? Name some organisms that use anaerobic mode of respiration.

Q.19. What are the necessary conditions for autotrophic nutrition and what are its byproducts.

Q.20. How is amount of urine produced regulated?

Q.21. What are the components of the transport system in human beings? What are the functions of these components?

Q.22. How is small intestine designed to absorb digested

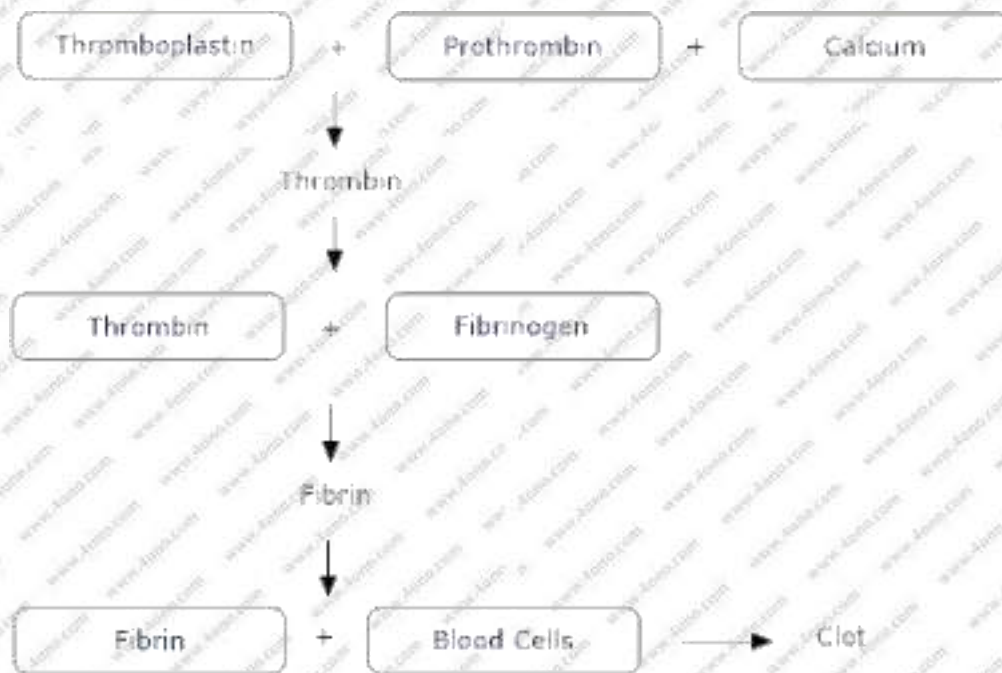
Q.23. Why and how does water enter continuously into the root xylem of plants?

Q. 24. Explain the structure of chloroplast.

SECTION – C

Q.25. With the help of a labelled diagram of human excretory system, Mention its important part and explain them.

Q.26. What is ‘clotting of blood’? Write a flow chart showing major events taking place in clotting of blood? Ans. Formation of clot at the site of injury to stop bleeding is known as ‘clotting of blood’. Steps for clotting of blood –



Q.27. (i) Draw a well labeled diagram of human digestive system

(ii) Describe the role of following in digestion.

- a) Bile
- b) Salivary amylase
- c) HCl

Q.28. Describe an experiment to prove that carbon – dioxide is essential for the process of photosynthesis.

Q.29. With the help of labeled diagram, Discuss the mechanism of respiration in human beings.

Q.30. Describe double circulation in human beings. Why is it necessary?



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