Assignment - 1

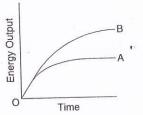


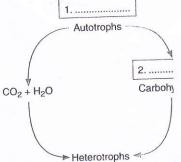
A. Very Short Answer Type Questions (1 mark each)

- 1. Define nutrition.
- 2. Name the raw materials required for photosynthesis.
- 3. What do you mean by nutrients?
- 4. What type of nutrition is exhibited by Amoeva, Ascans and rapemorm.
- 5. Which muscles help in breathing movements in man.
- 6. Name the carrier that carries oxygen in the blood of human beings.
- 7. Name the respiratory organs of fish, prawn and cockroach.
- 8. How are grana and thylakoid inter-related?
- 9. How many lobes are present the left human lung?
- 10. What is the function of epiglottis?
- 11. How is food ingested in Amoeba?
- 12. Define photosynthesis.
- 13. Which food constituent is digested in the mouth cavity of man?
- 14. In which organ of the body are the loops of Henle found?
- 15. Which organ secretes a hormone when the blood sugar rises. Name a digestive enzyme relased by this o
- 16. Write one feature which is common to each of the following pairs of terms/organs:
- (a) Glycogen and starch (b) Chlorophyll and haemoglobin
- 17. Where is blood oxygentated in fishes?
- 18. How Amoeba and other unicellular animals get rid of their nitrogenous wastes?
- 19. Mention the function of urinary bladder.
- 20. Name the valve present between right auricle and right ventricle.
- 21. What should be the ideal blood pressure for a normal adult man?
- 22. Which plant structures are associated with transpiration?
- 23. Name the four chambers of the human heart.
- 24. What is the function of haemoglobin?
- 25. Name two structures in plants where waste products get accumulated.
- 26. Write one feature which is common to each of the following pairs of terms/organs:(a) Gills and lungs (b) Arteries and veins

B. Short Answer Type Questions (2 marks each)

- 1. What is fermentation? Give one example where fermentation occurs.
- 2. How does a saprophyte obtain its food?
- 3. What is the role of pepsin in the digestive process? At what pH does it work?
- 4. Differentiate between breathing and respiration.
- 5. Name the steps involved in various phases of photosynthesis.
- 6. Write two important functions of liver.
- In the flow chart given alongside, fill in the blank spaces with the kind of energy available.
- 8. Why does raw bread taste sweet when it is chewed for a while?
- 9. What is the role of hydrochloric acid during the process of digestion in stomach?
- 10. Name the different modes of respiration in frog.
- 11. How many energy molecules are produced during glycolysis?
- 12. A graph was plotted to show the energy output of two types of respiration. Identify the types of resp denoted by curves A and B.





- **13.** In the test tubes A and B shown here, yeast was kept in sugar solution. Which products of respiration would you expect in test tubes A and B?
- 14. Although bile juice has no digestive enzyme, it is still considered to be very important during digestion of food. Give two reasons.
- 15. What is the function of the glomerulus?
- 16. What do you mean by systolic and diastolic blood pressure?
- 17. Why is the left ventricle more muscular than the right ventricle?
- 18. Mention two important functions performed by human kidney.
- 19. What is the pericardium? Mention the functions of pericardial fluid.
- 20. What is the route of water in plant during transpiration.
- 21. Name the components of the human circulatory system.
- 22. What do the following transport?

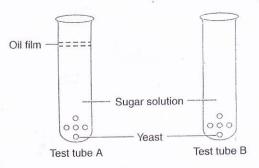
(a) xylem (b) phloem (c) pulmonary vein (d) vena cava

C. Short Answer Type Questions (3 marks each)

- 1. Describe the two types of digestion of food in the human stomach.
- 2. Mention the difference between aerobic and anaerobic respiration.
- 3. What is the difference between autotrophic and heterotrophic mode of nutrition?
- 4. Mention the conditions necessary for photosynthesis.
- 5. Describe the process of digestion in the small intestine of man.
- 6. Describe the mechanism of oxygen transport in human blood.
- 7. Mention the different ways of exchange of gases in animals.
- 8. Name the enzymes present in the pancreatic juice and mention their role in digestion.
- 9. How is digested food absorbed in the intestine of man?
- 10. Mention the difference between arteries and veins.
- 11. What will happen if both kidneys stop functioning?
- 12. What are blood capillaries? How are these structurally different from arteries?
- 13. Name the blood vessels which bring blood to the heart and the vessels which take the blood away from the heart.
- 14. Mention the advantage of separation of oxygenated and deoxygentated blood in human beings.
- 15. Mention the difference between WBCs and RBCs.
- 16. How do blood platelets help in clotting of blood?
- 17. What is glomerular filtration? Describe mechanism of its formation.
- 18. Mention the composition of blood plasma.

D. Long Answer Types Questions (5 marks each)

- 1. What is lymphatic system? Mention the functions of lymph.
- 2. Differentiate between lymph and blood.
- 3. What do you mean by haemodialysis? Under what conditions and how is it carried out?
- 4. Describe the flow of blood during double circulation in the human heart. Illustrate your answer with a labelled digram.
- 5. How is urine formed in human beings? Mention the composition of human urine.
- 6. Describe the mechanism of breathing in human beings.
- 7. How are oxygen and carbon dioxide transported in human beings?
- 8. Describe the different forms of heterotrophic nutrition, giving examples.
- 9. Name the digestive glands found in human beings. Mention the role of digestive juices secreted by them and the enzymes present in them.
- 12. Draw a labelled diagram of alimentary canal of human beings.
- 13. What are the characteristics of a good respiratory surface?
- 14. Describe the mechanism of anaerobic respiration.



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