

SUMMER VACATION ASSIGNMENT

SESSION 2017-18 CLASS -10 BIO

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Q1.What do you mean by nutrition?

Q2.Why are plants called autotrophs?

Q3.What is the source of energy used by plants for photosynthesis?

Q4.Which part of the plant traps solar energy ?

Q5.Define photosynthesis ?

Q6.Name the raw materials of photosynthesis ?

Q7.Define transpiration ?

Q8.Define emulsification?

Q9.what do you mean by Peristaltic movement ?

Q10.Write two differences between autotrophic nutrition and heterotrophic nutrition ?

Q11.Write functions of H.C.L (Hydrochloric acid) in stomach ?

Q12.What is the role of saliva in the digestion of food ?

Q13.How do guard cells regulate opening and closing of stomata pore ?

Q14.Differentiate between holozoic-nutrition and saprophytic nutrition ?

Q 15.How photosynthesis occurs in desert plant as their stomata are close during day time ?

Q16.Write the three events occurring during the process of photosynthesis ?

Q17.Write the function of the following in the digestive process-

(i)bile

(ii)pepsin

(iii)pancreatic amylase

Q18.State the role of liver and pancreas ?

Q19.Name the organ which performs the following function in humans –

(i)absorption of digested food

(ii) absorption of water

Q20.How and where digested foods are absorbed ?

Q21. Draw a level diagram of human digestive system ?

Q22. Describe an experiment to show that sunlight is essential for photosynthesis?

Q23. Define Respiration.

Q24. Expand ATP?

Q25. What do you mean by Aerobic respiration ?

Q26. What do you mean by anaerobic respiration ?

Q27. Where does the pyruvate formed in the cell?

Q28. Name the cell organelle where glucose gets oxidized and CO_2 is released?

Q29. What do you mean by glycolysis ?

Q30. Why is ATP called the energy currency of a cell ?

Q31. How does air reach in each cell of insect ?

Q32. Why do we get tired after the vigorous exercise ?

Q33. What is the function of the trachea ? Why does its wall not even when there is less air in it ?

Q34. Why does the lack of oxygen in muscles often lead to cramps among cricketers ?

Q35. Why do aquatic organisms breathe faster than the terrestrial organisms ?

Q36. Name the pigment that is respiratory pigment. (Haemoglobin) how many molecules of oxygen is carried by 1 molecule of hemoglobin ?

Q37. Differentiate between aerobic and anaerobic respiration ?

Q38. What are the different ways in which glucose is oxidized to provide energy to various organisms ?

Q39. Why is most of the carbon dioxide transported in the dissolved form ?

Q40. What would happen if the epiglottis is porous or absent in our body?

Q41. Explain the process of gaseous exchange between tissues and blood ?

Q42. How are alveoli designed to maximize the exchange of gases?

Q43. Draw a well-labeled diagram of the human respiratory system ?