

BIOLOGY

BOOKS - MBD NCERT SOLUTIONS

LIFE PRCOCESS (NUTRIENT, RESPIRATION, TRANSPIRATION AND EXCERTION

Example

1. What are the differences between autotrophic and heterotrophic nutrition?



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2. Where do the plants get each of raw materials required for photosynthesis?



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3. What is the role of aicd in our stomach?

4. What is the function of digestive enzymes?



5. What are the ways in which glucouse is oxidised to provide energy in various organisms?



6. How is oxygen and CO_2 Transported in human beings?



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7. How are water and minerals transported in plants?



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8. How is food transported in plants?





9. How does urine formation occur in human?



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10. The autotrophic mode of nutrition requires:

A. CO_2 and water

B. chlorophyll

C. sunlight

D. all of the above

Answer:



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11. The breakdown of pyruvate of ${\rm give}CO_2$ water and energy takes place in

A. eytoplasm

B. mitochondria

C. chloroplast

D. nucleus

Answer:



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12. What is the role of saliva in the degestion of food?



13. How are the alveoli designed to maximise the exchange of gases?



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14. What are the kinds of haterotrophic organisms of the basis of nutrition?



15. What is photosynthesis? describe the significance of photo-synthesis



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16. Which organelle is responsible for photosynthesis ? describe the role of chlorophy



17. Explain process of nutrition in amoeba?



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18. Difference between the followings: autotrophic and heterotrophic nutrition



19. Difference between the followings: herbivore and carnivore



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20. Describe the process of degestion of food in man



21. Name the consituents of blood and state the functions of each.



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22. State the functions of blood.



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23. What are life processes?



24. What is nutrition? briefly explain the two major kinds of nutrition



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25. Define autotrophic nutrition?



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26. Wht is saprophytic nutrition?



27. Explain the two main steps of photosythesis



28. Give a brief account of factors affecting the process of photosynthesis



29. How respiration takes place in roots and stKHOs in plants?



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30. To demonstrate that photosynthesis take place in the presence of chlorophyll



31. To dKHOonstrate that CO_2 necessary for photosynthesis



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32. DKHOnstrate with experiment that light is essential for photosynthesis



33. Why is food necessary for living organisms?



34. What is the effect of sternous exercise on rate breathing and why?



35. Describe the role of intestinal juice?



36. Explain absorption of food in the small intestine.



37. State the functions of stomach and large intestine



38. What is fermentation? How is it important?



39. What are the different modes of respiration in animals?



40. What are parasitic nutrition?



41. What are the functions of liver?



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42. Differentiate between saprophytic and parasitic nutrition?



43. Discuss the fate of food in the oral cavity of man?



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44. Name the enzymes of the pancreatic juice, the substrates they digest, and the products of their digestive action.



45. What is meant by photosynthesis? What are the basic requirements for the process of photosynthesis?



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



47. Explain how exchange of materials takes place between blood and tissues



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48. Leaves of a healthy potted plant are coated with vaseline to block the stomata will this plant reamain healthy for long? state three reasons to support your answer



49. What are stomata and lenticels?

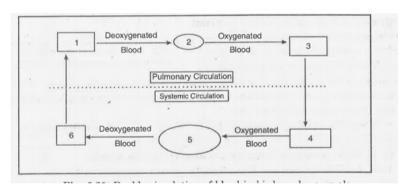


50. Briefly explain breathing, external respiration exchange of gases and tissue respiration



51. Why are the mitochondria called power houses of the cell?

52. Fill in the blanks 1,2,3,4,5,6 in the figure.





53. State differences between artery and vein?



54. Why are neutrophills called soldiers of the body?



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55. Hypertension and Hypotension.



56. Name the three major types of blood vessels.explain briefly



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57. Write a note on lymphatic system in human beings .



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58. The difference between blood and lymph:

59. How are water and mineral transported in plants?



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60. Mention any thrree methods adipted by plants to minimise the tranpiration rate.



61. What is translocation?



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62. What is blood pressure? What are normal valve of systolic and distolic blood pressure? How is it measured? Name the instrument used to measure blood pressure.



63. Write a note on mechanism of blood clotting



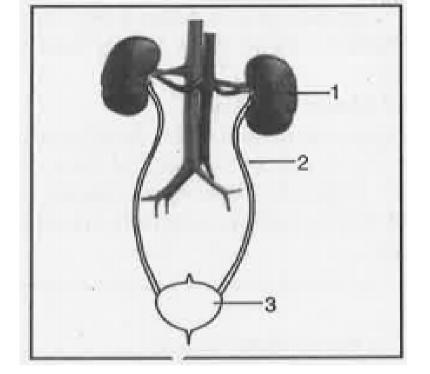
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64. Briefly describe excretory system?



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65. Label the parts of human excretory system?





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66. How does the excretion take place in amoeba?



67. State one main function of the following: glomerulus



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68. State one main function of the following: malpighian capsule



69. State one main function of the following: sweat gland



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70. State one main function of the following: nephron of kidney tubule



71. State one main function of the following: Loop of henle?



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72. Name the chief organs of excretion in man.

Mention the waste products that they excrete?



73. Name the following: A process by which the unwanted nitrogenous wastes are eliminated from the body.



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74. Name the following: Major excretory organs of man



75. Name the following: The structural and functional units of kindey.



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76. Name the following: A tuft of blood capillaries found in the bowman's capsule of nephron



77. Name the following: The structure that brings urine from the kidney to the urinary bladder



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78. Name the following: Thin membranous sac serving as the reservoir of urine



79. Name the following: Any two organic constituents of normal human urine?



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80. Name the following: The chief nitrogenous waste product in the human urine and the organ which produces it?



81. Name the following: Name two excretory products formed by the liver?



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82. What do you understand by artificial kidney

? Name the principle on which it works.



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83. Write a note on haemodialysis?

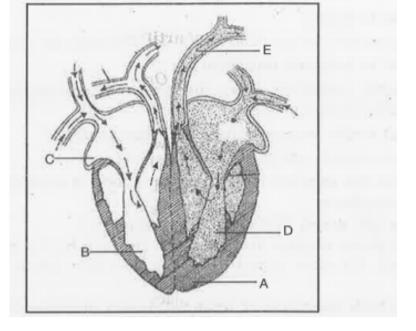


84. State the function of tongue



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85. Label the part A-E,Write function of E, also write function of E.





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86. Why are maintenance prosesses required?



87. List three characteristics of living organisms?



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88. What are life processes?



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89. What is the basic requirement of maintenance?



90. What are sources of energy for living organisms?



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91. List the common reactions required to obtained energy from carbon based molecules?



92. Name any four life processes required for maintenance?



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93. What are nutrients?



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94. What is nutrition? Why is it necessary?



95. What is food? What is holozoic nutrition?



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96. What is the source of food for heterotrophs?



97. Name the process which prepares food is autotrophs?



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98. Why are green plants called producers?



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99. In which spectrum of light maximum photosynthesis occurs?



100. Where is chlorophyll present in cells of leaves?



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101. How does oxygen produced during photosynthesis enter the atmosphere?



102. Where does photoysis occur in plant?



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103. What are the advantages of cooked food?



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104. What is the role fo CO_2 during photosynthesis?



105. What is the role of stomata in green leaves?



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106. Name the minerals obtained from soil by plants?



107. What is the role of nitrogen in plants?



108. What is the food of amoeba?



109. Is food vacuole of amoeba, temporary structure or a permanent one?



110. What is saliva?



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111. Name the enzymes present in saliva.



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112. Name the organ through which food passes into stomach from oral cavity?



113. Name the largest part of alimentary canal?



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114. Which of the animals need long large intestine?



115. What is the nature of food entering small intestine from stomach?



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116. Name the juices which convert acidic food into alkaline in small intestine?



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117. Name the digestive juice secreted by liver?



118. Name the digestive juice secreted by pancreas?



119. List the enzymes which help in the digestion of protiens?



120. What is approximate length of human alimentary cannal?



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121. Name the largest gland present in human body?



122. Name the gland which is exocrine as well as endocrine in nature



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123. What are three parts of small intestine?



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124. Name the four enzymes present in pancreatic juice?



125. Maximum water is absorbed in which part of alimentary cannal



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126. What in digestion?



127. What is assimilation?



128. What is egestion?



129. What happens to pyrnvate produced during anaerobic respiration?



130. Aerobic respiration



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131. What is anaerobic res-piration?



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132. What is ATP?



133. Expand NADP



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134. Name three animals which respire through skin?



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135. Where does krebs cycle occur in the body?



136. What is hypoxia?



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137. Name the respiratory sub-strate?



138. What is the end product of aerobic respiration?



139. What is fermentation?



140. Man breaths how many times per minute?



141. What are the functions of ATP?



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142. What is bark?



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143. Name the tissue which transport food in plants?



144. What is xylem?



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145. Name two substances which enter the root through the root hairs?



146. What is ascent of sap?



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147. Name the transport tissue of body?



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148. Name the three types of blood vessels?



149. List types of circulation in human body?



150. Name the fluid medium of blood?



151. Why is the S-A node called pace-maker of the heart ?



152. Name the organs which play role in circulation of blood?



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153. Name the types of cells which destroy harmful bacteria in the body?



154. Name the instrument used to measure blood pressure?



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155. Name the artery which carry impure(deoxygenated) blood from heart to lungs



156. Expand ECG?



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157. Write about excretion?



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158. How many nephrons are present in each kidney?



159. What is the excretory structure in Amoeba?



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160. What is Malpighian body?



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161. Name the reservoir of urine in the body.



162. What is micturition?



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163. Name the structures which store wastes in plants?



164. What are resins and gumd?



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165. Define autotrophic nutrition?



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166. Define heterotrophic nutrition?



| 167. | Which | one | of | the | following | is | a | parasition |
|------|-------|-----|----|-----|-----------|----|---|------------|
| plar | nt? | | | | | | | |

- A. plasmodium
- B. cuscuta
- C. amoeba
- D. rhizobium

Answer:



168. Dark reaction and light reaction of photosynthesis takes place in

A. stroma and grana of chloroplast respectively

B. grana and stroma of chlorplast respectively

C. grana only

D. stroma only



Answer:

169. Chemical reaction takes place during dark reaction of photosynthesis is

A. photosythesis

B. hydrolysis

C. carbon dioxide is bonded with RUBP

D.

Answer:



170. Plants are green in colour because

- A. The absorb green light only
- B. they reflect green light
- C. they absorb green lgiht but reflect all other lights
- D. None of the above are correct

Answer:



171. The nutrition in mucor is:

- A. parasitic
- B. autorophic
- C. saprophytic
- D. holozonic

Answer:



172. In amoeba the digestion is intracellular because:

A. amoeba is unicellular

B. amoeba is multicellutar

C. amoeba is found in pond

D. amoeba is microsopic animal

Answer:



| 173. Which | of the | following | has | no | digestive |
|-------------------|--------|-----------|-----|----|-----------|
| enzyme ? | | | | | |
| | | | | | |

A. saliva

B. bile

C. gastric juice

D. intestinal juice

Answer:



174. CO_2 acceptor during dark reaction of photosynthesis is

- A. RUMP
- B. PEP
- C. NADPH
- D. ATP

Answer:



175. Viruses show.....movKHOents



176. Growth,....and reapair andare characteristics of life?



177.is needed by living organisms for movements and maintenance



178.is nedded by living organisms for movKHOents and maintenance.



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179.is the largest gland of body.



180.andare the raw materials for photosynthesis



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181. RBC transportin the body.



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182. Xylem andare the main conducting tissues in plants



183. Translocation of food takes place through.....of plants

