BIOLOGY

BOOKS - CAMBRIDGE BIOLOGY (KANNADA ENGLISH)

LIFE PROCESSES

Question

1. Why is diffusion insufficient to meet the oxygen requirement of multicellular

organisms like humans?

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2. What criteria do we use to decide whether something is alive?

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3. What are the outside raw materials used by an organism ?

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4. What process would you consider essential for maintaining life?

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5. What are the difference between autotrophic nutrition and heterotrophic nutrition ?

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

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7. What is the role of the acid in our stomach ?

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8. What is the function of digestive enzymees?

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9. How is the small intestine designed to absorb digested food ?

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10. What advantages over an aquatic organisms does a terrestrial organism have with regard to obtaining oxygen for respiration ?

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

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12. How is oxygen and carbon dioxide transported in human beings?

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13. How are the lungs designed in human beings to maximise the area for exchange of gases ?

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

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15. Why is it necessary to separate oxygenated and deoxygenated blood in mammals and birds?

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16. What are the component of the transport system in highly organised plants ?

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17. How are water and minerals transported in plants ?

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18. How is food transported in plants ?

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19. Describe the structure and functioning of nephrons.

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20. What are the methods used by plants to get rid of excretory products ?

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21. How is the amount of urine produced regulated ?

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Exercise Choose The Correct Answer

1. The kidneys in human beings are a part of the system for

A. Nutrition

B. Respiration

C. Excretion

D. Transportation

Answer:

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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

Answer:

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3. The autotrophic mode of nutrition requires.

A. Carbondioxide and water

B. Chlorophyll

C. Sunlight

D. All the above

Answer:

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4. The breakdown of pyrurate to give carbondioxide water and energy takes place in

A. Cytoplasm

B. Mitochondria

C. Chloroplast

D. Nucleus

Answer:

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Exercise Answer The Following Question

1. How are fats digested in our bodies ? Where does this process take place ?

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

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3. What are the necessary conditions for autotrophic nutrition and what are its by products ?

4. What are the differences between aerobic and anaerobic respiration ? Name some organisms that use the anaerobic mode of repiration.

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

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6. What would be the consequences of a deficiency of haemoglobin in our bodies ?

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7. Describe double circulation in human beings, Why is it necessary ?

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8. What are the difference between the transport of materials in xylem and phloem ?

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9. Compare the functioning of alveoli in lungs and nephron in the kidneys with respect to their structure and functioning.

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Additional Questions Choose The Correct Answer

1. Which of the following type has the longest small intestine.

A. Carnivores

B. Omnivores

C. Herbivores

D. Autotroph

Answer: C

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2. Villi are present in

A. Pancreas

B. Stomach

C. Small intestine

D. Oesophagus

Answer: C

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3. Which of the following metal is associated with haemoglobin

A. Aluminium

B. Iron

C. Potassium

D. Calcium

Answer: B

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4. Where the process of digestion of food starts in human beings?

A. Stomach

B. Food canal

C. Mouth

D. Small intestine

Answer: C

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5. The kidneys in human beings are a part of the system for

A. Excretion

B. Nutrition

C. Respiration

D. Transportation

Answer: A

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6. By which of the following bile is secreted in human digestive system ?

A. Pancreas

B. Liver

C. Kidney

D. Stomach

Answer: B

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7. The action of bile can be termed as :

A. Esterification

B. Hydrogenation

C. Oxidation

D. Emulsification

Answer: D

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8. Which one of the following organisms can live without oxygen of air.

A. Amoeba

B. Sheep

C. Yeast

D. Leech

Answer: C

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9. Respiration is a process in which

A. Energy is stored in the form ofADP

B. Energy is used up

C. Energy is released and stored in the form of ATP.

D. Energy is not released at all.

Answer: C

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10. The oxygenated blood is carried from lungs to left auricle by

A. Venacava

B. Pulmonary vein

C. Pulmonary artery

D. Aorta

Answer: B

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Additional Questions Answer The Following Question

1. Name the organ which is part of two body systems.

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2. Why do raw bread taste sweeter on mastication ?

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3. Define nutrition.

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4. Name the basic steps of nutrition in animals?

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5. Write down the full form of the following

* ADP * ATP * NADP

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6. Why is the photosynthesis important to the global world?

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7. What is osmoregulation ?

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8. What are the two main functions of kidneys ?

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9. What are the excretory organs of insects like grasshoppers ?

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10. How does excretion takes place in segmented worms, like earthworms ?

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11. List the excretory system organs in human beings.

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12. Name the enzymes present in saliva, gastric juice and pancreatic juice. Write their functions.

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13. Write factors which affects the process of photosynthesis.

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14. Why do the walls of the trachea not collapse when there is less air in it ?

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15. What will happen to a plant if its xylem is removed ?

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16. Mention how organisms like bread moulds and mushrooms obtain their food.

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17. Give one reason why multicellular organisms require special organs for exchange of gases between their body and their environment.

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18. Name the green dot like structures in some cell observed by a student when a leaf peel was viewed under a microscope, what is this green colour due to ?

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19. a) State the role of liver and pancreas.

b) Name the organ which performs the following function in humans.

i) Absorption of digested food.

ii) Absorption of water.

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20. Why will simple diffusion not meet the requirement of human beings ?

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21. State the role and function of lymph in the human transport and system.

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22. State the role of kidneys in humans

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

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24. Describe the process of nutrition in Amoeba with the help of diagram.

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25. Draw a diagram of the front view of human heart.

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26. Draw a schematic representation of transport and exchange of oxygen and carbon dioxide.

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27. Draw a well labelled diagram of human alimenntary canal, and label the following parts :

(i) Liver

(ii) Pancreas

(iii) Small intestine

(iv) Large intestine.

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28. Describe the structure of human respiratory system.

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29. Draw a neat diagram of excretory system of human beings and label the parts.

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30. Sketch and label the structure of nephron.

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Unit Test Fill In The Blanks

1. The action of bile can be termed as :

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