

Unit: 1

The human Body

Q:1. What is brain and what is the function of brain?

Ans: The brain is the part of body nervous system. It control speech, thought, balance, movement, the senses, emotions, dreams, and all body functions.

Q:2. What is the function of occipital lobe?

Ans: It is the visual processing centre of brain.

Q:3. . What is the function of temporal lobe?

Ans: Temporal lobe controls memory, speech and hearing process.

Q:4. What is the function of frontal lobe?

Ans: Frontal lobe controls reasoning, planning, emotions, and problem solving.

Q:5. . What is the function of parietal lobe?

Ans: Parietal lobe controls movement, recognition, and some senses.

Q:6. What is heart and what is the job of heart?

Ans: The heart is a muscle. Its job is to pump blood around our body so that oxygen reaches every part of our body.

Q:7. What is the function of our lungs?

Ans: Lungs are very important organs that help to spread oxygen and remove carbon dioxide from our body.

Q:8. What happens when we breathe in?

Ans: When we breathe in we inhale oxygen from air.

Q:9. What happens when we breathe out?

Ans: When we breathe out we exhale carbon dioxide from our body.

Q:10. What role do the intestines play in the digestive system?

Ans: They help to digest the food and remove the food that our body doesn't need.

Q:11. What is function of our muscles?

Ans: Muscles help us in movement. They also help to move things around our body. Our heart is a muscle. It moves blood around our body.

Q:12. Name the organ that controls the activities of your heart, lungs, muscles, and intestines?

Ans: Brain

Q:13. What is the main part of nervous system?

Ans: Brain.

Q:14. How many distance travel by brain messages in per hour?

Ans: More than 240 kilometres per hour.

Q:15. What is the name of fastest land animal?

Ans: Cheetah.

Q:16. Which is the largest part of brain?

Ans: Cerebrum.

Q:17. How many parts of cerebrum?

Ans: Four.

Q:18. How many times the human heart beats in a minute?

Ans: 70 times.

Q:19. How many chambers are present in human heart? Name them?

Ans: Four chambers. i) left atrium ii) right atrium

iii) left ventricle iv) right ventricle

Q:20. What is the average weight of woman's heart?

Ans: 225 grams.

Q:21. What is the average weight of man's heart?

Ans: 285 grams.

Q:22. How many lungs are present in human body?

Ans: Two.

Q:23. How many litres of air you breathe every day?

Ans: 10,000 litres.

Q:24. How many types of intestines are present in human body? Write their name and length?

Ans: There are two intestines.

i) The intestine that is six meter long is the small intestine.

ii) The intestine that is one meter long is the large intestine.

Q:25. How many muscles are present in human body?

Ans: More than 600 muscles.

Q:26. How many muscles work during smile?

Ans: Seventeen muscles.

Q:27. How many muscles work during frown?

Ans: Forty three muscles.

Q:28. Which gas is necessary for human being to live and grow?

Ans: Oxygen.

Unit:2

The animal world

Q:1 Name the three essential things animals need to survive?

Ans: i) Water ii) energy iii) oxygen

Q:2 What is water made from?

Ans: Water is made up of two chemicals, hydrogen and oxygen.

Q:3. What is the chemical formula of water?

Ans: H₂O

Q:4. Which thing is the main reason that life exists on earth?

Ans: Water.

Q:5. Why is energy important for an animal's survival?

Ans: Animal need energy to move, to digest food, to reproduce, to grow and to breathe also.

Q:6. Where does all energy come from?

Ans: All energy comes from the sun.

Q:7. What are carnivores?

Ans: Carnivores are animals that only eat meat. e.g. lion.

Q:8. What are herbivores?

Ans: Herbivores are animals that only eat plants. e.g. goat.

Q:9. What are omnivores?

Ans: Omnivores are animals that eat both meat and plants. e.g. human.

Q:10. Arrange these parts of the food chain in the correct order:

i) secondary consumer

ii) primary consumer

iii) tertiary consumer

iv) producer

Ans: i) producer

ii) primary consumer

iii) secondary consumer

iv) tertiary consumer

Q:11. What are producers?

Ans. Plants use sunlight as well as water and minerals from the ground to make their own food. Plants are known as producers.

Q:12. Which process is used by plants for making food?

Ans: Photosynthesis.

Q:13. Which gas is necessary for human being to live and grow?

Ans: Oxygen.

Q:14. Which gas is used by plants for making food?

Ans: Carbon dioxide.

Q:15. What gas do animals get from plants?

Ans: Oxygen.

Q:16. What do animals give plants in return?

Ans: Carbon dioxide.

Q:17. Why is animal reproduction important?

Ans: Reproduction is important for the survival of all living things. Without reproduction life would come to an end.

Q:18. What are the two ways of reproduction in animals?

Ans: There are two ways of reproduction in animals

i) Sexual reproduction

ii) Asexual reproduction

Q:19. Which process is used by living thing to produce new living things?

Ans: Reproduction.

Q:20. What is meant by fertilize?

Ans: Fertilize means to bring life to something.

Q:21. Which animal reproduce by themselves?

Ans: Sea anemone.

Q:22. Name the animal that climb?

Ans: Monkey.

Q:23. What is meant by metamorphosis?

Ans: Metamorphosis is when an animal changes its appearance and body structure during the different stages of its life cycle.

Q:24. Can animals survive longer without food or without water?

Ans: Animals can survive longer without food.

Q:1. How many parts of a plant?

Ans: There are four main parts of a plant:

i) root ii) stem iii) leaf iv) flower

Q:2. What is the function of root?

Ans. The roots absorb water and minerals from the ground. They also help to anchor the plant in the ground.

Q:3. What is the function of stem?

Ans: Stem transports water up the plant. It also supports the leaves and flowers, particularly wind.

Q:4. Which plant uses its stem to store water?

Ans: Cactus.

Q:5. What is the function of leaves?

Ans: Leaves are the place where food is produced.

Q:6. Where photosynthesis and transpiration is take place in plants?

Ans: Leaves.

Q:7. What is the function of flower?

Ans: Flowers produce seeds which form new plants.

Q:8. Which process helps to keep plants cool?

Ans: Transpiration.

Q:9. Name the processes that make a plant live, grow and reproduce. Write a short note to explain each.

Ans: There are four main processes that enable plants to live, grow and reproduce. These processes are:

i) photosynthesis ii) transpiration iii) transportation iv) reproduction

Photosynthesis: The process of producing food is called photosynthesis.

Transpiration: It is a process that involves water evaporating from a plant. It helps to keep plants Cool.

Transportation: is the process of transporting water, minerals and food to all parts of the plant body.

Reproduction: Plants contain both male and female parts. In flowering plants, reproduction takes place in the flowers.

Q:10. What is the name of tube which carry food in plants?

Ans: Phloem.

Q:11. What is the name of tube which carry water in plants?

Ans: Xylem.

Q:12. Name the male part of flower?

Ans: Stamen

Q:13. Name the female part of flower?

Ans: Pistil.

Q:14. Which part of the plant is the reproductive part?

Ans: Flower.

Q:15. What is the function of sepal?

Ans: The sepal protects the bud before it opens into a flower.

Q:16. What is the function of petals?

Ans: Their job is to attract insects to the flower.

Q:17. How does fertilization take place in a plant?

Ans: Plant fertilization occurs when a bird, insect, or the wind transfer pollen grains from the anther of one plant to the stigma of another plant. From the stigma, the pollen goes down the tube to the ovary, where it fertilizes an egg and a seed is formed.