

Chapter 8: Body Movement

NCERT Exemplar · Class 6 · Science

Multiple Choice Questions

Question 1

Which of the following parts of our body help us in movement?

(i) Bones (ii) Skin (iii) Muscles (iv) Organs

Choose the correct answer from the option below.

A.

(i) and (iii)

B.

(ii) and (iv)

C.

(i) and (iv)

D.

(iii) and (ii)

Answer

Correct option: A

Solution

Ans: The movement of the human body is possible because of the two main parts of our body which are the bones and the muscles. The bones are joined through each other from end to end and give the body a solid and strong foundation while the contractions in our muscles help us to move our organs in any direction of our will.

Hence, the correct option is (a).

Question 2

Which of the following joints is immovable?

A.

Shoulder and arm

B.

Knee and joint

C.

Upper jaw and skull

D.

Lower jaw and upper jaw

Answer

Correct option: C

Solution

Ans: The upper jaw and the skull are the immovable joints in the human body and they do not show any movement.

Hence, the correct answer is option (c).

Question 3

Which of the following organisms does not have both muscles and skeleton for movement?

A.

Dog

B.

Snail

C.

Earthworm

D.

Human being

Solution

Ans: Here, dogs and human beings have both muscles and skeleton while a snail has a hard shell which is a form of an exoskeleton and an earthworm lacks skeletons but uses two types of muscles for movement.

Hence, none of these are correct.

Question 4

Underwater divers wear fin-like flippers on their feet to

A.

Swim easily in water.

B.

Look like a fish.

C.

Walk on the water surface.

D.

Walk over the bottom of the sea (sea bed).

Answer

Correct option: A

Solution

Ans: The underwater i.e. sea divers use the fin-like flippers on their feet when going underwater in order to make their body to get efficient which helps them to reduce the haul of water acting on their body. This process helps them to move easily and quickly in deep water like the other aquatic animals.

Hence, the correct answer is option (a).

Question 5

Snail moves with the help of its

A.

Shell

B.

Bone

C.

Muscular foot

D.

Whole body

Answer

Correct option: C

Solution

Ans: A snail uses its muscular foot for movement since it does not have a bone in the lower part of its body. However, they have a hard shell made up of an exoskeleton.

Hence, the correct answer is option (c).

Question 6

How many muscles work together to move a bone?

A.

One

B.

Two

C.

Three

D.

Four

Answer

Correct option: B

Solution

Ans: A body uses two of its muscles to move a single bone since a muscle can only pull a bone but cannot push it back. Hence, another muscle is needed in order to maintain the movement of a bone.

Therefore, the correct answer is option (b).

Very Short Answer Questions**Question 7**

Name the type of joint of your hand which helps you to grasp a badminton racquet.

Solution

Ans: There are some special types of joints present in our fingers that are used for the grip while holding objects in our hands. These joints are known as the hinge joints.

Question 8

What would have happened if our backbone was made of one single bone?

Solution

Ans: The human backbone is made up of 24 smaller bones that are joined end to end. This structure helps us to bend our back or turn ourselves in other directions. If the backbone was made up of a single bone then we would not have been able to bend or turn our back.

9. Provide one-word answers to the statements given below.

1. Part of the body with a fixed joint.

Ans: Upper jaw with the skull

2. Help in the movement of the body by contraction and relaxation.

Ans: Muscles

3. Joint which allows movement in all directions.

Ans: Ball and socket joint

4. Hard structure that forms the skeleton.

Ans: Bone

5. Framework of bones which gives shape to our body.

Ans: Skeleton

6. Bones that join with chest bone at one end and to the backbone at the other end.

Ans: Ribs

7. Bones which enclose the organs of our body that lie below the abdomen.

Ans: Pelvic bones

8. Part of the skeleton that forms the earlobe.

Ans: Cartilage

Question 9

Joint where our neck joins the head.

Solution

Ans: Pivot joint

Question 10

Write the type of joint which is used for each of the following movements:

(a) A girl moves her head in the right and left direction.

(b) A person lifts weights to build up his biceps.

(c) A cricket bowler bowls the ball.

Solution

Ans: The joint of the neck and head, which is known as the pivotal joint.

Ans: The joint of the elbow is called the elbow joint.

Ans: The joint of the arm and the shoulder is a type of ball and socket joint.

Short Answer Questions

Question 11

Match the name of the animals given in Column I with its body parts used for movement given in Column II.

Column I	Column II
a) Human beings	i) Wings
b) Cow	ii) Limbs

c) Eagle	iii) Fins
d) Snake	iv) Legs
e) Fish	v) Whole body

Solution

Ans: The correct match for the given animals in Column I to their body parts used for movement in Column II is given in the table below.

Column I	Column II
a) Human beings	ii) Limbs
b) Cow	v) Legs
c) Eagle	i) Wings
d) Snake	iv) Whole body
e) Fish	iii) Fins

Question 12

Given below is a list of different types of movements in animals.

Running, Jumping, Walking, Slithering, Crawling, Flying, Swimming, Creeping

Write the types of movements seen in each animal.

(a) Duck

(b) Horse

(c) Kangaroo

(d) Snail**Solution**

Ans: Swimming and walking

Ans: Running and walking

Ans: Jumping

Ans: Crawling

(e) Snake

Ans: Slithering

(f) Fish

Ans: Swimming

(g) Human beings

Ans: Walking and running

(h) Cockroach

Ans: Creeping and flying

Question 13

Boojho fell off a tree and hurt his ankle. On examination, the doctor confirmed that the ankle was fractured. How was it detected?

Solution

Ans: The doctors use the method of X-rays to detect any fracture of the bone. The X-rays pass through the muscles, tissues or cavities but do not pass through any bone. Hence, the bones appear white and it helps the doctor to detect the fracture.

Question 14

Bones are hard structures and cannot be bent. But, we can still bend our elbow, knee, etc. How is this possible?

Solution

Ans: A single bone can not be bent from any of its parts but if two bones are joined to each other through a joint then we may be able to move that set of bones accordingly. Such as the hinge joint, pivotal joint, ball and socket joint, and the pelvic joint.

Question 15

Which type of movement would have been possible if

(a) Our elbow had a fixed joint.

(b) We were to have a ball and socket joint between our neck and head.

Solution

Ans: If our elbow had a fixed joint then no movement would have been possible in our elbow.

Ans: If we would have a ball and socket joint between our neck and head instead of a pivotal joint then we would be able to turn our head in all the directions just like our arm.

Question 16

Earthworms are known as 'farmer's friends. Why?

Solution

Ans: Earthworms are generally found in the fields below the thin layers of soil as they burrow in the soil. This helps in improving the quality of the soil by making the soil loose, soft, and making the movement of air easier through the soil. This helps the crops to grow better. This is why earthworms are known as farmers' friends.

Long Answer Questions

Question 17

(a) Unscramble the jumbled words and write them in the blank spaces provided.

(i) Neosb

(ii) Iontcaronct

(iii) Tnemevom

(iv) Isecsum

(v) Arctigeal

(vi) Epahs

(vii) Sangro inerlan

(viii) Laxaeriont

(a) _____ and (b) _____ form the skeleton of the human body. They provide the framework, give (c) _____ to the body and help in (d) _____. They protect the (e) _____. The bones are moved by alternate (f) _____ and (g) _____ of two sets of (h) _____ attached to them.

Solution

Ans: Bones

Ans: Contraction

Ans: Movement

Ans: Muscles

Ans: Cartilage

Ans: Shape

Ans: Internal organs

Ans: Relaxation

(b) Read the following paragraph and fill in the blanks using the words you unscrambled.

Ans: The words to be filled in the blank spaces are as follows:

(a) Bones

- (b) Cartilage
 - (c) Shape
 - (d) Movement
 - (e) Internal organs
 - (f) Contraction
 - (g) Relaxation
 - (h) Muscles
-

Question 18

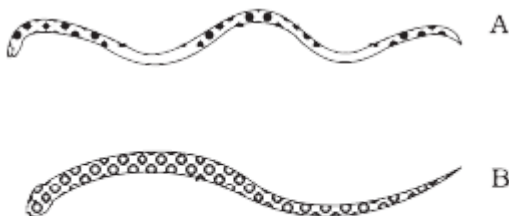
How is the skeleton of a bird well-suited for flying?

Solution

Ans: The skeleton of a bird is well-suited for flying because the wings of the birds are attached to their thorax. Also, their light organs like the lungs and the sacs are at a higher position. The position of their heavy muscles lies in the center of their body. Due to the structure of the body of a bird, the air resistance is also reduced. In this way, a bird's skeleton is well suited for flying.

Question 19

In Fig. 8.2 There are two snakes of the same size slithering on the sand. Can you identify which of them would move faster and why?



Solution

Ans: Since the two snakes A and B are slithering on sand, the snake which has more loops in its movement is very likely to move faster since snakes use left and right crawling to move forward which is known as slithering. Therefore, snake A will move faster as it has more loops in its movement.

Chapter 8 Body Movement - Overview

Chapter 8 of Science NCERT for Class 6 showcases thorough knowledge on how healthy bones, muscles, joints, and cartilages are needed by the body for movements and also the formation of skeletons in the human body. This particular chapter also includes details about the bones and joints that help animals move in different ways. In Chapter 8 of Class 6 Science Body Movements, you will learn what makes the bones move the way they do, along with the skeletal framework, alternate contraction, the gait of animals and insects.

Essential topics covered in Class 6 NCERT Solutions Chapter 8 of Science - Body Movements are:

1. The human body and its movements
2. Ball and socket joints
3. Pivotal Joint
4. Hinge joints
5. Fixed joints
6. Gait of animals – Structure and movement of earthworms, snails, cockroaches, fish, birds, self-confidence analyze, and snakes
7. Along with keywords and important activities for a better understanding of the topics