

Short Answer Questions

Q.1. Given below is a list of different types of movements in animals. Write the types of movements seen in each animal. [NCERT Exemplar]

(i) Duck

Ans. Duck – flying, walking, swimming

(ii) Horse

Ans. Horse – running, walking

(iii) Kangaroo

Ans. Kangaroo – jumping, walking

(iv) Snail

Ans. Snail – creeping

(v) Snake

Ans. Snake – slithering

(vi) Fish

Ans. Fish – swimming

(vii) Human being

Ans. Human being – walking

(viii) Cockroach

Ans. Cockroach – walking, flying

Q.2. Boojho fell off a tree and hurt his ankle. On examination the doctor confirmed that the ankle was fractured. How was it detected? [NCERT Exemplar]

Ans. The doctor must have observed a swelling and taken an X-ray of the ankle. X-ray images confirm injuries/fractures in bones.

Q.3. Earthworms are known as ‘farmer’s friends’. Why? [NCERT Exemplar]

Ans. An earthworm eats its way through the soil. Its body excretes the undigested materials that make the soil fertile.

Q.4. Bones are hard structures and cannot be bent. But, we can still bend our elbow, knee, etc. How is this possible? [NCERT Exemplar]

Ans. Elbow and knee are not made up of a single bone, but two or more bones which are joined to each other by a joint (Hinge joint). This joint along with the muscles helps us to bend the elbow and knee.

Q.5. Which type of movement would have been possible if [NCERT Exemplar]

(i) our elbow had a fixed joint?

Ans. We would not have been able to bend/fold our arms.

(ii) we were to have a ball and socket joint between our neck and head?

Ans. We would have been able to rotate our head 360°.

Q.6. Write the type of joint which is used for each of the following movements:

(i) A cricket bowler bowls the ball.

Ans. Ball and socket joint

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

Ans. Pivotal joint

(iii) A person lifts weights to build up his biceps. [NCERT Exemplar]

Ans. Hinge joint

Q.7. Write three functions of the skeleton.

Ans.

(i) Protects internal organs,

(ii) Allows movement,

(iii) Gives shape and support to the body.

Q.8. Write two features of a fish's body that enables it to move in water.

Ans.

(i) Streamlined shape of the body.

(ii) Powerful body muscles to move its tail and fins

Q.9. Write the special features that help a bird to fly.

Ans. The body is streamlined, bones are light and spongy, bones of forelimbs are modified into wings.

Q.10. Why are at least two muscles needed to move a bone at a joint in one direction?

Ans. Because one muscle would contract and the other would extend at the joint for movement.

Q.11. Why are the bones in the foot normally set in an arch?

Ans. The arched feet gives good support. The smaller toe bones help in walking and running.

Q.12. Distinguish between bone and cartilage.

Ans.

Bone	Cartilage
Bone is hard and inflexible.	Cartilage is soft and flexible.