

## NCERT QUESTIONS WITH SOLUTIONS

1. Fill in the blanks:

- Joints of bones help in the \_\_\_\_ of body.
- A combination of bones and cartilages forms the \_\_\_\_ of the body.
- Bones at the elbow are joined by a \_\_\_\_ joint.
- The contraction of the \_\_\_\_ pulls the bones during movement.

- Ans.**
- Joints of bones help in the movement of body.
  - A combination of bones and cartilages forms the skeleton of the body.
  - Bones at the elbow are joined by a hinge joint.
  - The contraction of the muscle pulls the bones during movement.

2. Indicate true (T) or false (F) for the following sentences.

- Movement and locomotion of all animals is exactly the same.
- Cartilages are harder than bones.
- Finger bones do not have joints.
- The forearm has two bones.
- Cockroaches have an outer skeleton.

- Ans.**
- Movement and locomotion of all animals is exactly the same. (False)
  - Cartilages are harder than bones. (False)
  - Finger bones do not have joints. (False)
  - The forearm has two bones. (True)
  - Cockroaches have an outer skeleton. (True)

3. Match the items in Column-I with one or more items in Column-II.

Column - I	Column - II
Upper jaw	Have fins on the body
Fishes	Has an outer skeleton
Ribs	Can fly in the air
Snail	Is an immovable joint
Cockroach	Shows very slow movement
-	Have a streamlined body
	Protect the heart

**Ans.**

Column - I	Column - II
Upper jaw	Is an immovable joint
Fishes	Have a streamlined body; Have fins on the body
Ribs	Protect the heart
Snail	Shows very slow movement
Cockroach	Has an outer skeleton; can fly in the air

4. Answer the following:

- What is a ball and socket joint?
- Which of the skull bones are movable?
- Why can our elbow not move backwards?

- Ans.**
- Ball and socket joint is a movable joint. It consists of a bone that has a round head, which fits into a cup like depression of another bone. This helps the bone to rotate freely. Examples of such joints are hip and shoulder joints.
  - Mandible bone which forms the lower jaw is the only skull bone that is movable.
  - The elbow has a hinge joint. This type of a joint allows the movement in one plane only. Therefore, our elbow cannot move backwards.