

Question:1

Fill in the blanks:

- (a) Joints of the bones help in the _____ of the body.
- (b) A combination of bones and cartilages forms the _____ of the body.
- (c) The bones at the elbow are joined by a _____ joint.
- (d) The contraction of the _____ pulls the bones during movement.

Solution:

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

Question:2

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

- (a) The movement and locomotion of all animals is exactly the same. ()
- (b) The cartilages are harder than bones. ()
- (c) The finger bones do not have joints. ()
- (d) The fore arm has two bones. ()
- (e) Cockroaches have an outer skeleton. ()

Solution:

- (a) Movement and locomotion of all animals is exactly the same. (False)
- (b) Cartilages are harder than bones. (False)
- (c) Finger bones do not have joints. (False)
- (d) The fore arm has two bones. (True)
- (e) Cockroaches have an outer skeleton. (True)

Question: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	protect the heart
-	shows very slow movement
-	have a streamlined body

Solution:

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

Question:4

Answer the following:

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

Solution:

(a) 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.

(b) Mandible bone which forms the lower jaw is the only skull bone that is movable.

(c) The elbow has a hinge joint. This type of a joint allows the movement in one plane only. Therefore, our elbow cannot move backwards.