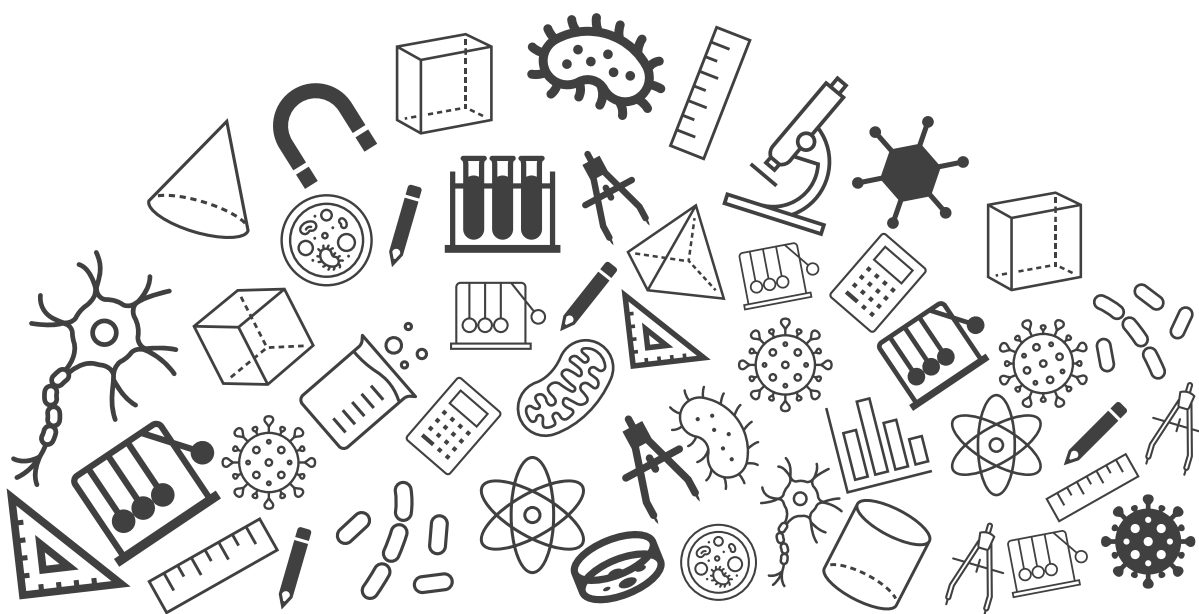




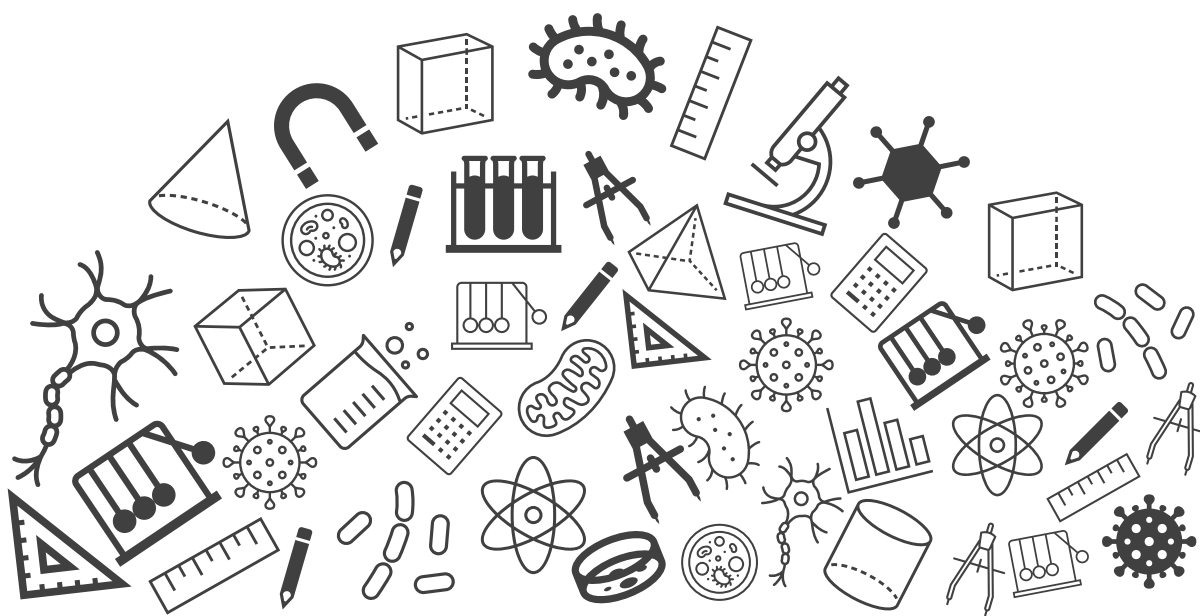
Grade 06 : Science

Exam Important Questions





Body Movements



Body Movements

Topic : Exam Important Questions

1. State whether the following statements are true or false. [1 mark]

Statement 1: Rib cage helps in protection of the spinal cord.

Statement 2: Skull helps in the protection of the kidney.

- ☐ A. Only statement 1 is true.
- ☐ B. Only statement 2 is true.
- ☐ C. Both the statements are true.
- ☒ D. Both the statements are false.

Solution: The correct answer is option (d) (1 mark)

- The ribcage helps protect the organs in the chest, such as the heart and lungs, from damage.
- Skull helps in the protection of brain.

2. The hinge joint is present in the elbow. [1 mark]

- ☒ A. True
- ☐ B. False

Solution: The correct option is (a): True (1 mark)

The hinge joint is present in the elbow that allows only a back and forth movement.

3. Which joints allow movement in all directions? [4 marks]

Solution:

There are two types of joints which allow movement in all directions. They are as follows:

- **Ball and socket joint:** It is a joint in which the rounded end of one bone fits into the cavity (hollow space) of the other bone. Such a joint allows movements in all directions. It is present in hips and shoulders. (2 marks)
- **Saddle joint:** The movable joint present in the wrist and thumb is known as the saddle joint. Such a joint helps to move our wrist in all directions. (2 marks)

4. What are fixed joints? [2 marks]

Solution:

- Fixed joints do not allow any movement and thus are called immovable joints. (1 mark)
- Fixed joints are present in the skull. (0.5 marks)
- They attach the upper jaw to the rest of the head. (0.5 marks)

5. How does the rippling motion take place in a snail? [3 marks]

- The snail propels itself by generating a series of muscular pulses on its foot. (0.5 marks)
- These waves of muscular relaxations and contractions start at the foot and move towards the entire body. (1 mark)
- The wave produces enough energy for the snail to move forward. (0.5 marks)
- The snail also releases a slippery slime, which coats the ground under the snail and this helps to move along easily. (1 mark)

Body Movements

6. Write down the difference between movement and locomotion with examples. [2 marks]

The difference between the movement and locomotion is as following: (2 marks)

	Movement		Locomotion
1.	It refers to a change in posture or change in any body part without any change in the original position of the organism.	1.	It refers to a change in the position of the organism from one place to another.
2.	Example: Birds moving their head	2.	Example: Birds flying away from the tree to the sky

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

The skeleton of a bird is well-suited for flying as:

- Bones are hollow and light.
- The bones of forelimbs are modified as wings.
- Shoulder bones are strong.
- The breastbones are modified to hold muscles of flight that are used to move the wings up and down

8. State whether the following statements are true or false:

Statement 1: Bones are hard structures and cannot be bent.

Statement 2: We can bend our elbow and knee joints.

- ☒ A. Statement 1: True; Statement 2: False
- ☒ B. Statement 1: False; Statement 2: True
- ☒ C. Statement 1: True; Statement 2: True
- ☒ D. Statement 1: False; Statement 2: False

Solution:

- Therefore, the correct answer is option (c) Statement 1: True; Statement 2: True.
- Bones are hard structures which give shape and support to our body. They cannot be bent.
- Bending of our body parts such as the elbow, knee is possible due to the presence of different types of joints between the bones.
- Elbow and knee are not made up of a single bone but two or more bones which are joined to each other by a hinge joint.
- This joint along with the muscles help us to bend the elbow and knee.