

BIJENDRA PUBLIC SCHOOL

Class - 5

Subject - SCIENCE

Chapter - 4 OUR SKELETAL SYSTEM

A. Objective type questions.

1. Circle the correct answer.

a. Which of these is a part of skeletal system?

Ans. Skull

b. This part of skeletal system protects the heart.

Ans. Rib cage

c. Which of these is an example of an immovable joint?

Ans. Skull

d. This is a part of the shoulder girdle.

Ans. Collar bone

2. Match the following.

a. Breast Bone - Sternum

b. Immovable joints - Skull

c. Movable joints - Hip joint

d. Involuntary muscles - Muscles of heart

e. Voluntary muscles - Muscles of leg

3. Rewrite these sentences correctly.

a. All the bones of skull are immovable joints.

Ans. All the bones of skull, except the lower jaw, are immovable joints.

b. There are 600 bones and 206 muscles in our body.

Ans. There are 206 bones and 600 muscles in our body.

c. Muscles are attached to bones by cartilage.

Ans. Muscles are attached to bones by tendons.

d. Tendons protect bones by preventing them from rubbing against each other.

Ans. Cartilage protect bones by preventing them from rubbing against each other.

5. Tick the odd one.

a. Skull, Backbone, Lungs, Rib cage

Ans. Lungs

b. Lower arm, Upper arm, Fingers, Toes

Ans. Toes

c. Fingers, Toes, Upper leg, Lower leg

Ans. Fingers

d. Pivot, Hinge, Skull(except lower jaw), Ball and socket

Ans. Skull(except lower jaw)

6. Give one word answers -

a. It is the framework of bones in our body.

Ans. Skeleton

b. These are the small bones of the backbone.

Ans. Vertebrae

c. It is the place where two bones meet.

Ans. Joint

d. The hard elastic substance that covers the bone ends at a joint.

Ans. Cartilage

B. Subjective - type questions

1. Short answer questions.

a. What forms our skeletal system?

Ans. The skull, backbone, rib cage and bones of the limbs and girdles form our skeletal system.

b. What are floating ribs?

Ans. The last two pair of ribs are called floating ribs as they are joined only to the backbone.

c. What kind of bones is the skull made of?

Ans. The skull is made up of flat bones.

d. Name the two girdles present in our skeletal system.

Ans. The two girdles present in our skeletal system are -

i. Shoulder girdle

ii. Pelvic girdle

e. Name the two types of muscles in our body.

Ans. The two types of muscles are -

i. Voluntary muscles

ii. Involuntary muscles

2. Long answer questions.

a. Give one function for each of the following.

Ans. One function of:

Skull : The skull protects the brain and give shape to our face.

Backbone : The backbone covers and protects the spinal cord.

Rib cage : The rib cage covers and protects the heart and the lungs.

Limbs : There are two pairs of limbs. the forelimbs and the hindlimbs. Forelimbs help us to pick and carry things while the hindlimbs helps us to walk and run.

Cartilage : The cartilage protects the bones by preventing them from rubbing against each other.

b. Write short notes on:

Ans. i. Types of movable joints: There are four types of movable joints -

Pivot joint : This allows our head to move from side to side and up and down.

Ball and socket joint : The joint allows movements in many directions.

Hinge joint : It allows movement in only one direction.

Gliding joint : It allows gliding movement so that bones can slide against each other.

ii. Two pairs of limbs: The two pairs of limbs are the forelimbs(or arm) and the hindlimbs(or legs)

The forelimbs have two parts, the upper arm, the lower arm and the fingers.

The hindlimbs also have two parts, the upper leg, the lower leg and toes.

Forelimbs help us to pick things and hindlimbs help us to walk.

c. What is the difference between voluntary and involuntary muscles? Give one example of each.

Ans. The difference between voluntary and involuntary muscles are-

Voluntary Muscles

The movement of these muscles can be controlled by us.

e.g.:Muscles of the arms and legs.

Involuntary Muscles

The movement of these muscles cannot be controlled by us.

e.g.:Muscles of the heart and lungs.