

Class - 5<sup>th</sup>  
Science  
Chapter - 3  
Skeletal System  
Pdf Notes

# Cha-3 Skeletal System

classmate

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MCO - Pno. 175, 177

① Which of the following systems gives shape and support to our body?

a) digestive system

b) Excretory System

c) Skeletal System

② The skull of an adult human body has \_\_\_\_\_ bones.

a) 22

b) 26

c) 28

③ Ribcage has \_\_\_\_\_ pairs of ribs.

a) 10

b) 11

c) 12

④ Gliding joint is found in \_\_\_\_\_

a) neck

b) wrist

c) elbow

⑤ Hindlimbs are used for \_\_\_\_\_

a) Pulling objects

b) lifting

c) walking

⑥ A place where two bones meet is called a \_\_\_\_\_

a) Muscles

b) Joint

c) Spinal cord.

Section  
A

classmate

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ORAL QUESTIONS

① How many cranial bones are there in upper portion of the skull?

⇒ Eight (8) bones.

② What is meant by skeleton?

⇒ The framework of bones is called a skeleton.

Science Quiz

① How many pairs of ribs are there in ribcage?

⇒ Twelve (12) pairs of ribs.

② Name the long bone which lies at the centre of chest.

⇒ Chest bone (or, sternum)

MCQ P.no. 179

① The number of bones in an adult human body is \_\_\_\_\_

a) 202

b) 206

c) 209

② The type of joint in the ankle is

a) Pivot

b) gliding

c) hinge

## Fill in the blanks

- 1) Pivot joint is found in the neck
- 2) The muscles are attached to the bone by tendons.
- 3) The vertebral column protects the delicate spinal cord.

## Section - B

MCQ. 180

- ① The only muscles which do not get tired are \_\_\_\_\_
- a) voluntary muscles      b) involuntary muscles
- c) cardiac muscles

- ② These joints allow movement of the bones in one direction.

- a) hinge joints      b) Pivot joints
- c) gliding joints

Very short Answer

Q① What are tendons?

Ans Strong fibres that attach bones to muscles are called tendons.

Q-2 Give an example of involuntary muscles.

Ans Muscles found in stomach.

### Short Answer

① Write any two functions of the skeleton.

Ans The functions of skeleton are:

- 1) It gives shape and support to the body.
- 2) It protects the delicate internal organs like brain, heart etc.

② What is the difference between voluntary and involuntary muscles?

Ans Voluntary muscles are the muscles that are under our control.

eg:- muscles in our arms and legs.

Involuntary muscles are the muscles that are not under our control.

eg:- muscles in our stomach.

Q ③ Voluntary muscles are under our control. They obey the instructions given by us which results in the completion of a work without any problem.

a) Give an example of voluntary muscles.

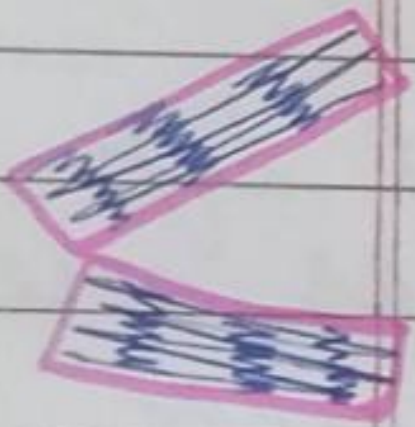
⇒ The muscles in arms are voluntary muscles.

b) Should we also obey our parents' advice like the voluntary muscles? why / why not?

We should always obey our parents' advice like voluntary muscles because it is our duty and it shows that we respect them.

### Long Answer

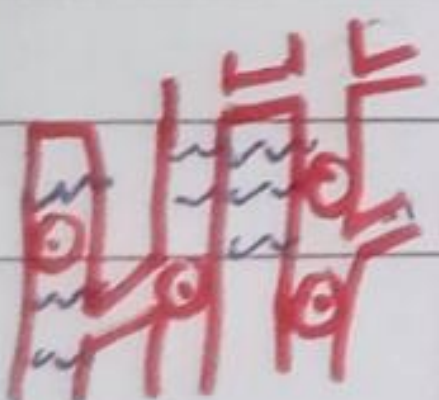
① Write in brief about the three types of muscles found in our body.



The muscles that are under our control are called voluntary muscles.  
eg:- muscles in our arms & legs.



The muscles that work but are not under our control are called involuntary muscles.  
eg:- muscles in our stomach.



The muscles present in our heart which never get tired are

called cardiac muscles.

Q-2) What are joints? Name the types of joints and also give one example.

The places where two bones meet are called joints. There are two types of joints, i.e. movable and immovable.

The four types of movable joints are:

- 1) Ball and socket joint — hips
- 2) Hinge joint — elbow
- 3) Pivot joint — neck
- 4) Gliding joint — wrist

Q-3) a) How do muscles help to move the bones?

⇒ Muscles work by pulling the bones and thus help in movement.

b) Why are we not able to move the bones of our skull?

⇒ We are not able to move the bones of our skull because they are joined by immovable joints.