



BIOLOGY

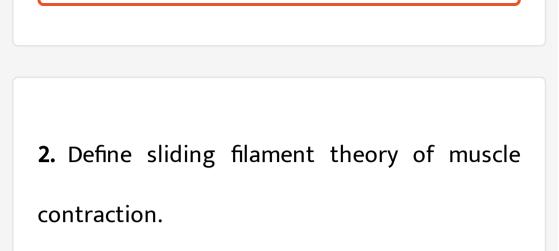
NCERT - FULL MARKS BIOLOGY(TAMIL)

LOCOMOTION AND MOVEMENT



1. Draw the diagram of a sarcomere of skeletal

muscle showing different regions





3. Describe the important steps in muscle

contraction.

4. Write the difference between:

- (a) Actin and Myosin
- (b) Red and White muscles
- (c) Pectoral and Pelvic girdle



5. Match Column I with Column II:

Platen columni i with columni ii.				
	Column I		Column II	
(a)	Smooth muscle	(i)	Myoglobin	
(b)	Tropomyosin	(ii)	Thin filament	
(c)	Red muscle	(iii)	Sutures	
(d)	Skull	(iv)	Involuntary	



6. Name the different types of movement.



7. How do you distinguish between a skeletal

muscle and a cardiac muscle?

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8. Name the type of joint between the

following:

(a) atlas/axis

(b) carpal/metacarpal of thumb

(c) between phalanges

(d) femur/acetabulum

(e) between cranial bones

(f) between pubic bones in the pelvic girdle

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Write True Or False If False Change The Statement So That It Is True

1. Actin is present in thin filament

A.True

B.False



2. H-zone of striated muscle fibre represents

both thick and thin filaments.

A.True

B.False



3. Human skeleton has 206 bones. [A] True[B]False

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4. There are 11 pairs of ribs in man

A. [A]True

B. [B]False

Answer: False

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5. Sternum is present on the ventral side of the body.

A.True

B.False

1. All mammals (except a few) have ____

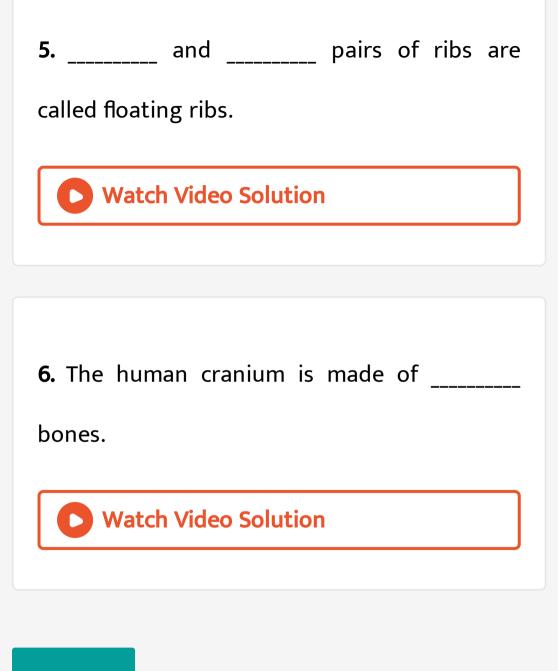
cervical vertebra.

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2. The number of phalanges in each limb of

human is _____

3. Thin filament of myofibril contains 2 'F'				
actins and two other proteins namely				
and				
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4. In a muscle fibre Ca^{++} is stored in				
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Evalution

1. Muscles are derived from

A. ectoderm

B. mesoderm

C. endoderm

D. neuro ectoderm

Answer:



2. Muscles are formed by

A. myocytes

B. leucocytes

C. osteocytes

D. lymphocytes

Answer:

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3. The muscles attached to the bones are called

- A. skeletal muscle
- B. cardiac muscle
- C. involuntary muscle
- D. smooth muscles

Answer:

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4. Skeletal muscles are attached to the bones

by

A. tendon

- B. ligament
- C. pectin
- D. fibrin

Answer:



5. The bundle of muscles fibres is called

A. Myofibrils

B. fascicle

C. sarcomere

D. sarcoplasm

Answer:

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6. The pigment present in the muscle fibre to store oxygen is

A. myoglobin

B. troponin

C. myosin

D. actin

Answer:

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7. The functional unit of a muscle fibre is

A. sarcomere

B. sarcoplasm

C. myosin

D. actin

Answer:



8. The protein present in the thick filament is

A. myosin

B. actin

C. pectin

D. leucin

Answer:

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9. The protein present in the thin filament is

A. myosin

B. actin

C. pectin

D. leucin





10. The region between two successive Z-discs is called a

A. sarcomere

B. microtubule

C. myoglobin

D. actin





11. Each skeletal muscle is covered by

A. epimysium

- B. perimysium
- C. endomysium
- D. hypomysium





12. Knee joint is an example of

A. saddle joint

B. hinge joint

C. pivot joint

D. gliding joint

Answer:

13. Name of the joint present between the atlas and axis is

A. synovial joint

B. pivot joint

C. saddle joint

D. hinge joint

Answer:

14. ATPase enzyme needed for muscle

contraction is located in

A. actinin

B. troponin

C. myosin

D. actin

Answer:

15. Synovial fluid is found in

A. Ventricles of the brain

B. Spinal cord

C. immovable joint

D. freely movable joints.

Answer:

16. Inflammation of joints due to accumulation

of uric acid crystals is called as

A. Gout

B. myasthenia gravis

C. osteoporosis

D. osteomalacia

Answer:

17. Acetabulum is located in

A. collar bone

B. hip bone

C. shoulder bone

D. thigh bone

Answer:



18. Appendicular skeleton is

- A. girdles and their limbs
- B. vertebrae
- C. skull and vertebral column
- D. ribs and sternum

Answer:

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19. The type of movement exhibits by the macrophages are

A. flagellar

B. ciliary

C. muscular

D. amoeboid

Answer:

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20. The pointed portion of the elbow is

A. acromion process

- B. glenoid cavity
- C. olecranon process
- D. symphysis

Answer:

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21. Name the different types of movement.

sarcomere.



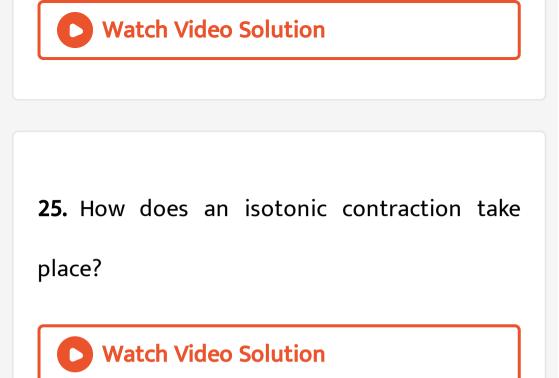
23. Name of the contractile proteins present in

the skeletal muscle.

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24. When describing a skeletal muscle, what

does "striated" mean?



26. How does an isometric contraction take

place?

27. Name the bones of the skull.



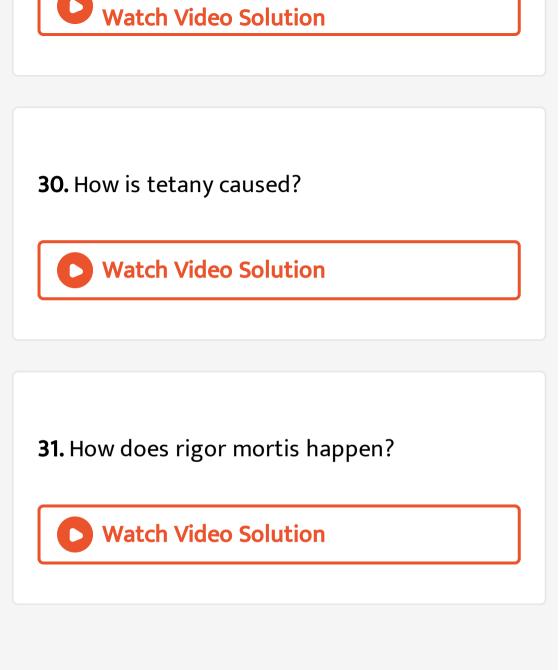
28. Which is the only jointless bone in human

body?

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29. List the three main parts of the axial skeleton.





32. What are the different types of rib bones

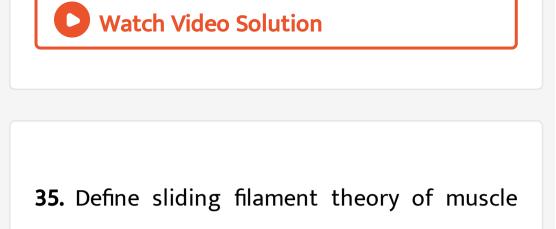
that form the rib cage?

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33. What are the bones that make the pelvic girdle?



34. List the disorders of muscular system.



contraction.

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36. What are the benefits of regular exercise?