



# BIOLOGY

## NCERT - NCERT BIOLOGY(ENGLISH)

### LOCOMOTION AND MOVEMENT

#### Exercise

1. Draw the diagram of a sarcomere of skeletal muscle showing different regions



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2. Explain sliding filament theory of muscle contraction with neat sketches.



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3. MECHANISM OF MUSCLE CONTRACTION



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4. Actin is present in thin filament



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5. H-zone of striated muscle fibre represents both thick and thin filaments.



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6. Human skeleton has 206 bones.



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7. There are 11 pairs of ribs in man



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



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9. Write the difference between:

(a) Actin and Myosin

(b) Red and White muscles

(c) Pectoral and Pelvic girdle



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## 10. Match Column I with Column II:

Match Column I with Column II.

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



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**11.** What are the different types of movements exhibited by the cells of human body?



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**12.** How do you distinguish between a skeletal muscle and a cardiac muscle?



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**13.** Name the type of the 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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**14.** Fill in the blanks spaces:

(a) All mammals (except a few) have \_\_\_\_\_  
cervical vertebra.

(b) The number of phalanges in each limb of  
human a \_\_\_\_\_

(c) \_\_\_\_\_ and \_\_\_\_\_ pairs of ribs are called floating  
ribs.

(d) the human cranium is made of \_\_\_\_\_ bones.



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**15.** Fill in the blanks spaces:

(a) All mammals (except a few) have \_\_\_\_\_  
cervical vertebra.

(b) The number of phalanges in each limb of  
human a \_\_\_\_\_

(c) \_\_\_\_\_ and \_\_\_\_\_ pairs of ribs are called floating  
ribs.

(d) the human cranium is made of \_\_\_\_\_ bones.



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**16.** Thin filament of myofibril contains 2 'F' actins and two other proteins namely \_\_\_\_\_ and \_\_\_\_\_.



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**17.** In a muscle fibre  $Ca^{++}$  is stored in : —



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**18.** Fill in the blanks spaces:

(a) All mammals (except a few) have \_\_\_\_\_  
cervical vertebra.

(b) The number of phalanges in each limb of  
human a \_\_\_\_\_

(c) \_\_\_\_\_ and \_\_\_\_\_ pairs of ribs are called floating  
ribs.

(d) the human cranium is made of \_\_\_\_\_ bones.



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**19.** Fill in the blanks spaces:

(a) All mammals (except a few) have \_\_\_\_\_  
cervical vertebra.

(b) The number of phalanges in each limb of  
human a \_\_\_\_\_

(c) \_\_\_\_\_ and \_\_\_\_\_ pairs of ribs are called floating  
ribs.

(d) the human cranium is made of \_\_\_\_\_ bones.



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