



# BIOLOGY

## NCERT - NCERT BIOLOGY(TELUGU)

### LOCOMOTION AND MOVEMENT

#### Biology

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



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2. Write a short note on sliding filament theory of muscle contraction.



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3. During muscle contraction



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4. Write the difference between actin and myosin.



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



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



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7. 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



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



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**3.** Indicate the given statement is true or false.  
Human skeleton has 206 bones.



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4. Indicate the given statement is true or false.

There are 11 pairs of ribs in man



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5. Indicate the given statement is true or false.

Sternum is present on the ventral side of the body.



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



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2. The number of phalanges in each limb of  
human is \_\_\_\_\_



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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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5. \_\_\_\_\_ and \_\_\_\_\_ pairs of ribs are called floating ribs.



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6. The human cranium is made of \_\_\_\_\_ bones.



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