



# BIOLOGY

## BOOKS - PSEB

### LOCOMOTION AND MOVEMENT

#### Exercise

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



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2. Define sliding filament theory of muscle contraction.



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3. Describe the important steps in muscle contraction.



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4. Write true or false. If false change the statement so that it is true: Actin is present in thin filament



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5. Write true or false. If false change the statement so that it is true: H-zone of striated muscle fiber represents both thick and thin filaments.



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6. Write true or false. If false change the statement so that it is true: Human skeleton has 206 bones.



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7. Write true or false. If false change the statement so that it is true: Sternum is present on the ventral side of the body.



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**8.** Write the difference between: Actin and Myosin



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**9.** Write the difference between: Red and White muscles



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**10.** Write the difference between: Pectoral and Pelvic girdle



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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 joint between the following: atlas/axis



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**14.** Name the type of joint between the following: carpal/metacarpal of thumb



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**15.** Name the type of joint between the following: between phalanges



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**16.** Name the type of joint between the following: femur/acetabulum



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**17.** Name the type of joint between the following: between cranial bones



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**18.** Name the type of joint between the following: between public bones in the pelvic girdle



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**19.** Fill in the blank spaces: All mammals (except a few) have \_\_\_\_\_ cervical vertebra.



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20. Fill in the blank spaces: The number of phalanges in each limb of human is \_\_\_\_\_



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21. Fill in the blank spaces: Thin filament of myofibril contains 2  $F$  actins and two other proteins namely \_\_\_\_\_ and \_\_\_\_\_.



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22. Fill in the blank spaces: In a muscle fiber

$Ca^{++}$  is stored in \_\_\_\_\_



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23. Fill in the blank spaces: \_\_\_\_\_ and

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



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24. Fill in the blank spaces: The human cranium is made of \_\_\_\_\_ bones.



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