

## **BIOLOGY**

## **BOOKS - PSEB**

## LOCOMOTION AND MOVEMENT

Exercise

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



**2.** Define sliding filament theory of muscle contraction.



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**3.** Describe the important steps in muscle contration.



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



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



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



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



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



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



**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?



**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



**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



**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



**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.



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



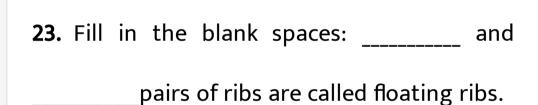
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**21.** Fill in the blank spaces: Thin filament of myofibril contains 2 F actins and two other proteins namely \_\_\_\_ and \_\_\_\_.



22.	Fill	in	the	blank	spaces:	In	а	muscle	fiber
Ca	++	is s	store	ed in _					







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

