

Class : XI<sup>th</sup>  
Date :

Subject : BIOLOGY  
DPP No. : 5

## Topic :-Locomotion & Movement

- Colle's fracture is associated with  
a) Femur                      b) Ulna                      c) Humerus                      d) Radius
- For how long, contraction of the muscles continues in sliding filament theory?  
a) Till ATP binds to myosin head                      b) Till ADP binds to myosin head  
c) Till  $\text{Ca}^{2+}$  present in sarcoplasm                      d) Till polymerization of myosin head is going on
- Osteoporosis is a  
a) Age related disorder                      b) Gene related disorder  
c) Viral disease                      d) Bacterial disease
- Which statement is correct for muscle contraction?  
a) Length of H-zone is decreased                      b) Length of A-band remains constant  
c) Length of I-band gets increased                      d) Length of two Z-line get increased
- The membrane sarcolemma is found over  
a) Heart                      b) Muscle fiber                      c) Both (a) and (b)                      d) Nerve fiber
- Human vertebral column is formed by  
a) 21 vertebrae                      b) 30 vertebrae                      c) 26 vertebrae                      d) 33 vertebrae
- The lactic acid generated during muscle contraction is converted to glycogen in  
a) Muscles                      b) Kidney                      c) Pancreas                      d) Liver
- Which of the following is important for muscle contraction and nerve impulse transmission?  
a)  $\text{Ca}^{2+}$  ions                      b)  $\text{Mg}^{2+}$  ions                      c)  $\text{Mn}^{2+}$  ions                      d)  $\text{Fe}^{2+}$  ions
- Which of the following statements is true with reference to the structure of a muscle fibre?  
a) H-zone is present in the middle of A-band  
b) A-band is present in the middle of sarcomere  
c) M-line is present in the middle of H-zone  
d) All of the above

10. Striated appearance of the myofibrils is due to  
 a) Actin proteins      b) Myosin proteins      c) Both (a) and (b)      d) None of these
11. Latissimus dorsi muscles are  
 a) Muscles of fore arm      b) Muscles of lower jaw  
 c) Muscles of chest      d) Muscles of shoulder
12. A disease associated with joint is humans  
 a) Glaucoma      b) Arthritis      c) Hernia      d) Horner's syndrome
13. Standing on tip toe is an example of  
 a) Elevation      b) Flexion      c) Extension      d) Retraction
14. An acromian process is characteristically found in the  
 a) Pelvic girdle of mammals      b) Skull of frog  
 c) Pectoral girdle of mammals      d) Sperm of mammals
15. Which of the below given bones divide olfactory capsules in rebbit into left and right halves?  
 I. Nasals  
 II. Premaxillae  
 III. Maxillae  
 IV. Mesethmoid  
 a) I      b) IV      c) II      d) III
16. The muscle band that remains unchanged during contraction and relaxation of the skeletal muscle is  
 a) I      b) H      c) A      d) A-line
17. Which of the following statements about the joints of humans is false?  
 a) Joints are essential for all types of movements involving bony parts  
 b) Joints are the contact between bones or between bones and cartilages  
 c) Fibrous joints are immovable  
 d) Cartilaginous joints permits great movement
18. Each actin (thin filament) of is made up of  
 a) Two 'F' (filamentous) actins      b) Two filament tropomyosin  
 c) Tropin      d) All of the above
19. Choose the correct statements  
 a) Synovial joints are freely movable  
 b) Ball and socket, and hinge joints are the synovial joints  
 c) Synovial joints are characterized by synovial cavity with fluid between the articulating surface of the two bones

d) All of the above

20. Select the correct statement with reference to muscle structure

I. Each myosin is a polymerized protein

II. Many meromyosin constitutes one thick filament (myosin)

III. Each meromyosin's tail is called heavy meromyosin (HMM) and head is called light meromyosin (LMM)

IV. The globular head is an active ATPase enzyme and has binding sites for ATP and active sites for actin

Choose the option with correct statements

a) All except I and II

b) All except III and IV

c) All except III

d) All except I and IV

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