

- a) I,II, and III are correct, while IV and V are incorrect
 b) I,III,V are correct, while II,IV are incorrect
 c) I and II are correct, while III, IV and V are incorrect
 d) I,II,III and V are correct, while IV is incorrect
9. Bones become fragile in
 a) Osteoporosis b) Gout c) Arthritis d) None of these
10. Where the saddle joints are presents in humans?
 a) Between carpals and matacarpals b) Atlas and axis
 c) Radius and ulna d) Carpals and phalanges
11. During muscle contraction, ATP provides energy for
 a) Cross bridge detachment b) Building up action potential
 c) Releasing Ca^{2+} from sarcoplasmic reticulum d) Cross-bridge attachment of myosin to actin
12. Arrange the given steps of muscle contraction in the series of events from first to last
 I. Myosin head binds to the exposed active site on action to form a cross bridge
 II. The Z-line attached to these actin are also pulled in wards there by causing shortening of sarcomere also called contraction
 III. This pulls the attached actin filaments towards the centre of A -band
 The correct option is
 a) I → II → III b) III → II → I c) I → III → II d) III → I → II
13. The contractile protein of skeletal muscle involving ATPase activity as
 a) Tropomyosin b) Myosin c) α – actinin d) Troponin
14. Striped muscles are characterized by
 a) Syncytial b) Spindle shape c) Uninucleate d) None of these
15. ...A... band contains actin and is called ...B.... band, whereas theC... band calledD... band contains myosin
 Choose the correct options for A, B and C to complete the given NCERT statement
 a) A-Light, B-I, C-dark, D-A b) A-Dark, B-I, C-light, D-A
 c) A-Dark, B-A, C-light, D-I d) A-Light, B-A, C-dark, D-I
16. Human cranium has.....bones.
 a) 8 b) 14 c) 20 d) None of these
17. Which of the following are the properties of cardiac muscles?
 I. They are the muscles of the heart
 II. They are non-striated
 III. They are involuntary in their functions

IV. They are made up of fascicles

Select the correct option

- a) I and III b) II and IV c) I and IV d) II and III
18. Both proteins, actin and myosin are arranged in a rod-like structure in the muscles
a) Radially b) Parallely c) Horizontally d) Obliquely
19. Ligament is mainly made up of
a) Reticulin b) Elastin c) Myosin d) Collagen
20. Skeletal muscles are closely associated with the ...A... components of the body. They have ...B... appearance under the microscope and hence are called ...C... muscles
Choose the correct options to fill A, B and C, so as to complete the given NCERT statement
a) A-muscular, B-stripped, C-striated b) A-visceral, B-stripped, C-striated
c) A-skeletal, B-stripped, C-striated d) A-microfibrillar, B-stripped, C-striated

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