

Class : XIth
Date :

Subject : BIOLOGY
DPP No. : 1

Topic :-Locomotion & Movement

- Volkman's canal occurs in
 - Bone
 - Cartilage
 - liver
 - internal ear
- Scapula is a large triangular flat bone situated in the dorsal part of the thorax between the
 - second and fifth ribs
 - Second and seventh ribs
 - third and eighth ribs
 - fourth and seventh ribs
- The coxal of the pelvic girdle is formed by the fusion of
 - ilium,ischium and pubis
 - scapula and clavicle
 - ilium and scapula
 - ilium, scapula and ischium
- The polysaccharide portion of a proteoglycan present in the matrix of cartilage is known as
 - Ossein
 - Cartilin
 - Casein
 - Chondroitin
- Statements about the mechanism of muscle contraction are given below.
 - Acetylcholine is released when the neural signal reaches the motor end plate.
 - Muscle contraction is initiated by a signal sent by CNS *via* a sensory neuron.
 - During muscle contraction isotropic band gets elongated.
 - Repeated activation of the muscles can lead to lactic acid accumulation.Identify the correct statement.
 - I and IV are correct
 - I and III are correct
 - II and III are correct
 - I, II, and III are correct
- Human skeletal system consists of
 - 200 bones
 - 300 bones
 - 206 bones
 - 250 bones
- Volkman's canals occur in
 - Internal ear
 - liver
 - Cartilage
 - Bone

8. Where did an epidemic bone softening disease itai-itai occurred first?
 a) South Korea b) Japan c) China d) Burma
9. The store house of calcium ions in the muscle fibre is
 a) Smooth endoplasmic reticulum b) Golgi body
 c) Sarcoplasmic reticulum d) Lysosomes
10. Ca^{2+} bind ...A... in skeletal muscles and leads to the exposure of binding site for ...B... on the filament ...C...
 Identify A, B and C, so as to complete the given statements
 a) A-troponin, B-actin, C-relaxin b) A-actin, B-myosin, C-troponin
 c) A-troponin, B-myosin, C-actin d) A-tropomyosin, B-myosin, C-actin
11. During skeletal muscle contraction following events occur-
 I. I-band shortens II. A-band shortens
 III. H-zone shortens IV. Sarcomere contract
 V. ATP changes to ADP and Pi
 Choose the option with incorrect events
 a) Only I b) Only III c) IV and V d) Only II
12. From outer to inside, the sequence of three bones present, in the middle ear of mammals, is
 a) Malleus, stapes and incus b) Stapes, malleus and incus
 c) Malleus, incus and stapes d) Incus, malleus and stapes
13. Aerobic muscles called ...A... and anaerobic muscles are called ...B... . Here A and B refers to
 a) A-red fibres; B-white fibres b) A-white fibres; B-red fibres
 c) A-white fibres; B-black fibres d) A-red fibres; B-black fibres
14. Hollow bones are characteristic of
 a) Reptiles b) Birds c) Mammals d) Fishes
15. Neuromuscular junction is a junction between
 a) Two neurons and muscles
 b) Sensory neurons and muscles
 c) Motor neurons and sarcolemma of muscles
 d) Sensory neurons and sarcolemma of muscles
16. Zygomatic arch of rabbit is formed of
 a) Maxilla, periotic and jugal b) Periotic, jugal and palatine
 c) Maxilla, squamosal and jugal d) Maxilla, premaxilla and squamosal
17. Streaming of the cytoplasm/cyclosis is seen in
 a) *Amoeba* b) Earhworm c) *Nereis* d) Leech

18. Pick out the correct match.

a) Sternum-14

b) Pelvis-3

c) Ribs-20

d) Face-5

19. Chemical ions responsible for muscle contraction are

a) Ca^{2+} and K^+

b) Na^+ and K^+

c) Na^+ and Ca^{2+}

d) Ca^{2+} and Mg^{2+}

20. In the resting state of muscles the troponin

a) Active site on actin filament

b) Terminal site on actin filament

c) Terminal site on actin tropomyosin

d) Middle site on actin tropomyosin

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