NEET REVISION SERIES

LOCOMOTION AND MOVEMENTS

Revise Most Important Questions to Crack NEET 2020

Q-1 - 14536803

The type of muscle present in our

(A) heart is involuntary and unstirated smooth

(B) intestine is striated and involuntary

(C) thigh is striated and voluntary

(D) upper arm is smooth muscle and fusiform in

CORRECT ANSWER: C

Q-2 - 17935284

Nucleus pulposus is

(A) A type of special cell found in myelin sheath of a nerve cell of vertebrate

(B) A depression for pituitary is found in mammalian skull

(C) A large nucleus found in Schwann cells of nerve fibre

(D) A remain of embryonic notochord found in the central portion of inter-vertebral discs of vertebrae of mammals

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CORRECT ANSWER: D

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Q-3 - 14536804

Which of the following is the most abundant mineral element in the skeletal muscle ?

(A) Sodium

(B) Calcium

(C) Potassium

(D) Phosphorous

CORRECT ANSWER: C

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Q-4 - 17935304

Vertebral formula for human beings is

(A)

$C_5T_{12}L_7S_5C_{3-5} = 33$

-35

(B)

$C_7T_{12}L_5S_5C_{3-5} = 33$

-35

(C) $C_5T_{10}L_5S_5C_{3-5} = \mathbf{33}$

(D) $C_7T_{10}L_5S_5C_{3-5} = \mathbf{33}$

CORRECT ANSWER: B

SOLUTION:

Cervical vertebrae are 7 in number, thoracic 12 in number, lumbar 5 in number, sacaral 5 in number in childhood they fuse in adults to form a single bone, the sacrum coccygral very from 3-5 in number.

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Q-5 - 14536856

Cranium of human contains

(A) 8 bones

(B) 14 bones

(C) 12 bones

(D) 20 bones.

CORRECT ANSWER: A

SOLUTION:

Cranium consists of 8 bones-1 frontal, 2 parietal, 2 temporal, 1 occipital, 1 sphenoid and 1 ethmoid.

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Q-6 - 14536811

The functional unit of contractile system in a striated muscle is

(A) sarcomere

(B) Z-band

(C) cross bridges

(D) nyofibril.

CORRECT ANSWER: A

SOLUTION:

Sarcomere is the functional unit of myofibril. It constains two types of protein filaments called actin and myosin. These filaments side upon each other to bring about the contraction of the muscles.

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Q-7 - 17935369

The longest bone of the human body is

(A) Humerus

(B) Tibia

(C) Vertebra

(D) Femur

CORRECT ANSWER: D

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Q-8 - 17935326

A vertebra has a convexity both in front and behind it. It is called

(A) Procoelous

(B) Amphicoelous

(C) Acoelous

(D) Amphiplatyon

CORRECT ANSWER: C

SOLUTION:

Acoelous mens without cavity on either of its ends. It can

be amphiplatyon with both ends flats or amphidicondylar with both ends convex. Procoelous have anterior concavity, amphicoelos has both sides concave.

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Q-9 - 34100638

Out of 'X' pairs of ribs in humans only 'Y' pairs are true ribs. Select the option that correctly represents values of X and Y and provides their explanation

(A) X=12, Y=7 True ribs are attached doresally to vertebral column and ventrally on the sternum.

(B) X=12, Y=5 True ribs are attached dorsally to vertebral column and sternum on the two ends.

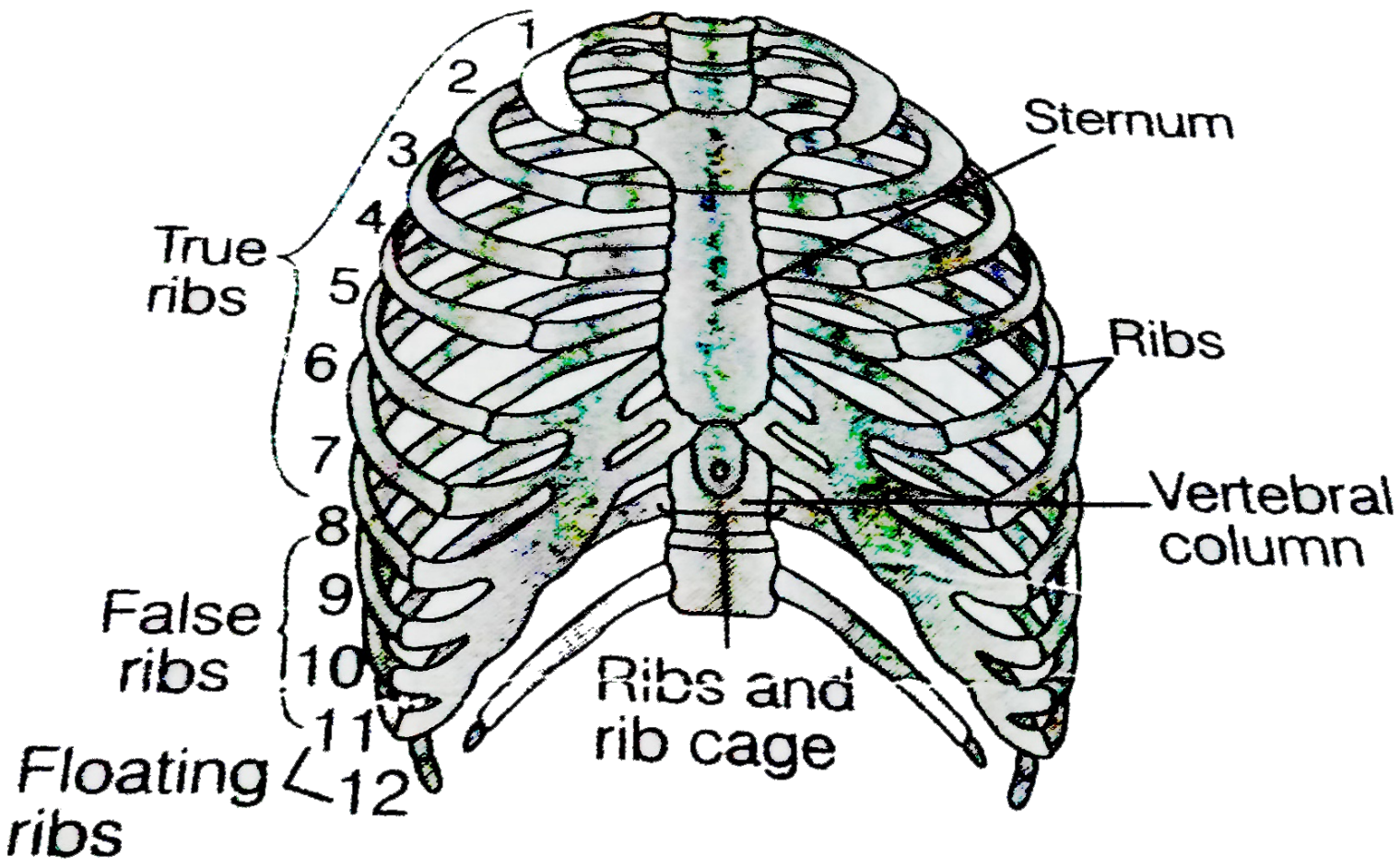
(C) X=24, Y=7 True ribs are dorsally attached to vertebral column but are free on ventral side.

(D) X=24, Y=12 True ribs are dorsally attached to vertebral column, but are free on ventral side.

CORRECT ANSWER: A

SOLUTION:

In the rib cage, the ture ribs are those which are attached to the sternum in the fron and vertebral column at back. These are 7 in numbers. Although there are total 12 ribs in the rib cage. The 11th and 12th ribs are attached to the vertebral column and keep floating in the thoracic cavity, so are called floating ribs.



Q-10 - 14536830

During muscular contraction, which of the following events occur?

H-zone disappears

(ii) A-band widens

(iii) I-band reduces in width

(iv) Width of A-is unaffected

(v) M-line and Z-lne come closer

(v) M-line and Z-line come closer

(A) (i), (iii), (iv) and (v)

(B) (i), (ii) and (v)

(C) (ii), (iv) and (v)

(D) (i), (ii) and (iii)

CORRECT ANSWER: A

SOLUTION:

Muscle contraction is brought about by sliding movement of actin filaments over myosin filaments. When a muscle fibril contracts, ita A band remain constant and I band shortens. H zone also disappears as the actin filaments of both sides in each sarcomere overlap each other at M-line. M-line and Z-line also come closer.

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Q-11 - 17935327

The last two pairs of ribs are named floating ribs because

(A) Their sternal parts are attached to the sternum directly

(B) Their sternal parts are attached on the 7^{th} pair of ribs

(C) Their sternal parts remain free and do not even reach he sternum

(D) They float in the body cavity

CORRECT ANSWER: C

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Q-12 - 34100689

Total number of bones in the hindlimb of a man is

(A) 14

(B) 30

(C) 24

(D) 21

CORRECT ANSWER: B

SOLUTION:

1femur +1 fibula + 1tibia + 1patella +7 tarsals +5 meta tarsals+14 phalanges make one hind limb of man. Total of 30 bones.

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Q-13 - 17935508

ATPase of the type muscle is located in

(A) Actinin

(B) Troponin

(C) Myosin

(D) Actin

CORRECT ANSWER: B

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Q-14 - 14536880

Appendicular skeleton includes

(A) girdle and their limbs

(B) vertebrae

(C) skull and vertebral column

(D) ribs and sternum.

CORRECT ANSWER: A

SOLUTION:

The endoskeleton of mammals have two major divisions:

(i) Axis skeleton that lies along the logitudinal axis of the

body . It support and protects the organs of the head , neck and trunk. It includes skull, ribs, sternum and vertebal column. (ii) Appendicular skeleton, which os associated with the appendages. it consists of two girdles. the pectoral and girdles the limb bones.

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Q-15 - 14536929

Long distance, competitve runners are usually small and wiry and run more slowly than sprinters, who run much shorter distances and generally have a loarger bulk of nuscles. Which of the following best explains the differences between the two types of runners?

(A) Long distance runners run more slowly because lactic acid quickly builds up in muscels and causes fatigue. Sprinters increase the oxygen supply to each

muscle, enough for lactic acid to build up in their muscles.

(B) The large muscels of sprinters increase the oxygen supply to each muscle, preventing lactic acid from forming.

(C) Sprinters do not run for long enough for sufficient lactic acid to build up in their muscles therefore they can have large muscles for more power. By being lighter and running more slowly long distance runners ensure that their muscles receive enough oxygen for aerobic respiration.

(D) sprinters run faster because their large muscles have more blood running through them to stop anaerobic respiration from taking place. Long distance runners run more slowly because they are using the energy from anaerobic respiration, which does not produce as much

ATP as aerobic respiration.

CORRECT ANSWER: C

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Q-16 - 34100677

Which statement is correct for muscle contraction?

(A) Length of H-zone decrease

(B) Length of A-band remains contant

(C) Length of I-bond increases

(D) Length of two Z-line increases

CORRECT ANSWER: B

SOLUTION:

When Ca^+ ions combine with troponin then in

conseqence muscle contraction will initiates.

During contraction, the Z-lines come closer together and the sarcomere becomes shorter. The length of A-band remains constant. I-bands shortens and H-zone narrwos.

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Q-17 - 14536844

During muscle contraction, actin and myosin ffrom

(A) actomyosin

(B) actoplasm

(C) plastosine

(D) myoplasm.

CORRECT ANSWER: A

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Q-18 - 17935406

Presence of furcula is a characteristic feature of

(A) Frogs

(B) Reptiles

(C) Birds

(D) Mammals

CORRECT ANSWER: C

SOLUTION:

The clavicle and interclavicle form a V-shaped furcula or with bone or merrythought in birds.

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Q-19 - 34100699

Extermities of long bones possess cartilage

(A) calcified

(B) fibrous

(C) elastic

(D) hyaline

CORRECT ANSWER: D

SOLUTION:

Hyaline cartilage is the most abundant cartilage. It forms the cushions or pads upon the articular surfaces at joints of long bones, known as articular cartilage.

It form the costal cartilage at the ventral ends of ribs and also hepls to form the nose larynx trachea bronchi and bronchial tubes.

Q-20 - 14536893

Collar bone is known as

(A) scapula

(B) clavicle

(C) pelvic girdle

(D) chevron bone.

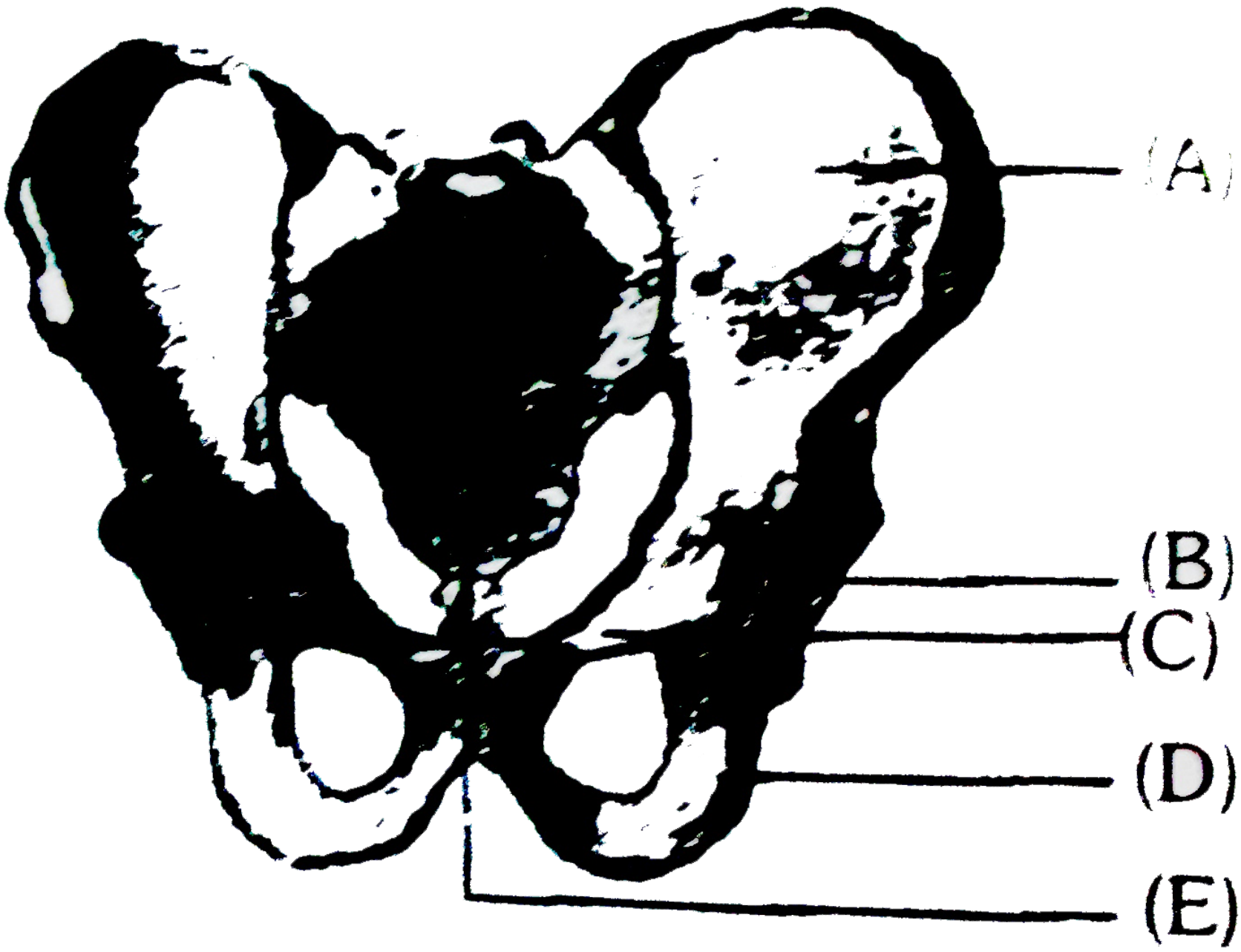
CORRECT ANSWER: B

SOLUTION:

Clavicle (collar bone) is the bone of pectoral girdle. It articulates with the acromion process of the scapula.

Q-21 - 17935301

In the pelvic girdle of man A, B, C, D and E respectively represents



(A) A-pubis, B-acetabulum, C-ilium, D-ischium, E-pubic symphysis

(B) A-ilium, B-acetabulum, C-pubis, D-ischium, E-pubic symphysis

(C) A-ischium, B-acetabulum, C-pubis, D-ilium, E-pubic

symphysis

(D) A-ilium, B-pubis, C- acetabulum, D-pubic symphysis,

E-ischium

CORRECT ANSWER: B

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Q-22 - 17935514

Match the followings and mark the correct option

Column I	Column II
Sternum	*i*. Synovial fluid
Glenoid Cavity	*ii*. Vertebrae
Freely movable joint	*iii*. Pectoral girdle
Cartilagenous joint	*iv*. Flat bones

(A) A-ii, B-I, C-iii, D-iv

(B) A-iv, B-iii, C-I, D-ii

(C) A-ii, B-I, C-iv, D-iii

(D) A-iv, B-I, C-ii, D-iii

CORRECT ANSWER: B

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Q-23 - 14536819

Which of the following contractile proteins contributes 55% of muscle protein by weight?

(A) Tropomyosin

(B) Troponin

(C) Myosin

(D) Actin

CORRECT ANSWER: C

SOLUTION:

Myosin constitutes 55% of muscle protein by weight. The thick filaments consists of six polypeptide chains, two identical heavy chains and four light chains.

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Q-24 - 34100687

Tendon is made up of

(A) adipose tissue

(B) modified white fibrous tissue

(C) areolar tissue

(D) yellow fibrous connective tissue

CORRECT ANSWER: B

SOLUTION:

The modified white fibres tissue form cords called tendons which connect muscles with the bones.

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Q-25 - 17935359

The protein present in the bones is known as

(A) Chondrin

(B) Ossein

(C) Sclero protein

(D) Globulin

CORRECT ANSWER: B

SOLUTION:

The protein present in the bone is known as ossein.

Which activate the bone formation.

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Q-26 - 14536839

The slow twitch muscle fibre which are rich in myoglobin and have abundant mitochondria are

(A) white skeletal muscles

(B) cardiac muscles

(C) red skeletan muscles

(D) involuntary muscles.

CORRECT ANSWER: C

SOLUTION:

Muscle contian a red coloured pigment called myoglobin

that stores oxygen. Some muscles have high content of myoglobin which gives them reddish appearance. Such muscle are called red muscles. Such muscles. Such muscles have abundant mitrochondria and show slow rate of contraction for long priods that's why they are called slow twitch muslces.

Q-27 - 17935370

Olecranon fossa is present over

(A) Scapula

(B) Ulna

(C) Radius

(D) Humerus

CORRECT ANSWER: D

SOLUTION:

Humerus is the bone of upper arm . It articulates with ulna of fore arm. Two depression just above trochlea on anterior aspect are coronoid fossa and radial fossa respectively receives coronoid process of ulna and head of radius. One large depression on the posterior aspect is olecranon fossa receives olecranon process of ulna in extention of elbow.

Q-28 - 17935354

In rabbit radius and ulna are

(A) Completely fused together

(B) Completely separated

(C) Fused in middle and separated at both the ends

(D) Separated but united at both the ends

CORRECT ANSWER: D

SOLUTION:

In rabbit, radius and ulna are separate bones but they

are joined at both ends by ligaments.

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Q-29 - 14536799

Passage of ova through female reproductive tract is facilitated by

(A) ciliary movement

(B) amoeboid movement

(C) flagellar movement

(D) cyclosis.

CORRECT ANSWER: A

SOLUTION:

There are three main types of movements shown by the cells of the human body, viz., amoeboied, ciliary and muscular. The cilia of the fallopian tubes (oviducts) show movement for transport of ova inside the reproductive tract.

Q-30 - 34100667

Which one of the following is correct pairing of a body part with the kind of muscle tissue present in it ?

(A) Hear wall $\rightarrow$ Involuntary unstriated

(B) Biceps of upper arm $\rightarrow$ Smooth muscle fibres

(C) Abdominal wall $\rightarrow$ Smooth muscle

(D) Iris $\rightarrow$ involuntary smooth muscle

CORRECT ANSWER: D

SOLUTION:

Smooth muscles are plain, non-striated, involuntary or unstrioped muscles due to the absence of striations. These occur in the walls of hollow internal organs in capsules of lymph glands, spleen etc in iris and ciliary body of eyes skin dermis, penis adn other accessory genitalia, etc.

Q-31 - 17935294

The skull of a bird is

(A) Dicondylic

(B) Monocondylic

(C) Amphicondylic

(D) None of these

CORRECT ANSWER: B

SOLUTION:

since it has a single occipital condyle.

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Q-32 - 34100645

Lack of relaxation between successive stimuli in striated muscle contraction is known as

(A) fatigue

(B) tetanus

(C) tonus

(D) spasm

CORRECT ANSWER: B

SOLUTION:

Sustained muscle contraction due to repeated stimulus is know as tetanus. This results due to muscle fatigue.

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Q-33 - 14536796

Microfilaments are involed in

(A) amoebiod movement

(B) ciliary movement

(C) muscular movement

(D) both (a) and (b)

CORRECT ANSWER: A

Q-34 - 17935344

Tongue bone is

(A) Hyoid bone

(B) Maxillary

(C) Dentary

(D) Quadrato-jugal

CORRECT ANSWER: A

SOLUTION:

Hyoid bone is attached with the some muscles of the tongue and floor of the mouth.

Q-35 - 14536917

Which of the following is/are not correctly matched pairs?

(i) Ball and socket joint -Between humerus and pectoral girdle

(ii) Pivot joint - Between carpal and metacarpal

(iii) Saddle joint - Between atlas and axis

(iv) Gliding joint - Between the carpals

(v) Fibrous joint - In flat skull bones

(A) (ii) and (iii)

(B) (i) and (iv)

(C) (v) only

(D) (ii) only

CORRECT ANSWER: A

SOLUTION:

Pivot joint - between atlas and axis.

Saddle joint - between carpal and metacarpal.

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Q-36 - 34100672

Acromion process is characteristacally found in

the_____of mammals.

(A) pelvic girdle of mammals

(B) pectoral girdle of mammals

(C) skull of frog

(D) sperm of mammals

CORRECT ANSWER: B

SOLUTION:

An acormion process is found in pectoral girdle of mammals. Pectoral girdle consists of a sharp ridege, the spine and a triangular body. The end of the spine projects as a flattened and expanded process called acromion.

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Q-37 - 14536836

In a muscle undergoes rapid contraction and relaxation, the sarcoplasmic reticulum extension

(A) requires constant plugging in and out of $Ca \wedge (2+)$

(B) rapidly synthesise myosin

(C) does not require energy all of these.

(D) all of these

CORRECT ANSWER: A

SOLUTION:

Sacoplasmic reticulum of muscle cells store Ca^{2+} ions. During contracting of muscle, Ca^{2+} ions are released from sarcolasmic reticulum to sarcoplasm and vice versa occurs during relaxation it requires constant plugging in and out of Ca^{2+} ions from sarcoplasmic reticulum.

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Q-38 - 34100676

What will happen if ligments are cut or broken?

(A) Bones will move freely at joints

(B) No movement at joint

(C) Bone will become unfix

(D) Bone will become fixed

CORRECT ANSWER: C

SOLUTION:

Ligaments are specialised connective tissues which connect bones together hence if they are cut or broken the bone will become unfixed.

Q-39 - 14536859

Smallest bone in human system is

(A) stapes

(B) patella

(C) malleus

(D) incus.

CORRECT ANSWER: A

SOLUTION:

Stapes, one of the ear ossicles, is the smallest bone in human body.

Q-40 - 34100691

The lower jaw in mammals is made up of

(A) mandible

(B) dentary

(C) maxilla

(D) angulars

CORRECT ANSWER: B

SOLUTION:

Dentary is tooth bearing membrane bone of lower jaw of the vertebrates-one on each side.

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Q-41 - 34100695

Which is part of pectoral girdle ?

(A) Glenoid cavity

(B) Sternum

(C) Ileum

(D) Acetabulum

CORRECT ANSWER: A

SOLUTION:

A cavity known glenoid cavity is present at the tip of scapula and coracoid process, for articulation of head of humerus, Pectoral girdle consists of a membranous bone called called clavicle and a large replacing bone called shoulder blade or scapula coracoid.

Q-42 - 14536921

Limbalances of certain hormones, deficiencies of calcium and vitamin D are the major causative factors of

(A) rheumatoid arthritis

(B) osteoporosis

(C) osteoarthritis

(D) gouty arthritis.

CORRECT ANSWER: B

SOLUTION:

Osteoporosis is a disease of bone in which bone mineral density (BMD) is reduced, structure of bone gets disrupted, the amount and variety of non-collagenous proteins in bone is changed and the chances of fracture

increaes. It is caused by deficiency of calcium, vitamin D, estrogen and androgen and increased level of glucocorticoid, thyroid parathyroid hormones.

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Q-43 - 17935443

_____ acts as a shock absorber to cushion when tibia and femur came together

(A) Ligament

(B) Cartilage

(C) Tendon

(D) Disc

CORRECT ANSWER: A

SOLUTION:

Ligments connects the two bones together and acts as a shock absorber to cushion when tibia and femur came together.

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Q-44 - 17935418

Old people are, more liable to fracture of their bones because

(A) Bones become soft and elastic

(B) Bones become hard and brittle

(C) Bones contain large quantity of organic matter

(D) None of the above

CORRECT ANSWER: B

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Q-45 - 34100656

The H-zone in the skeletal muscle fibre is due to

(A) the absence of myofibrils in the central portion of A-band

(B) the central gap between myosin filaments in the A-band

(C) the central gap between actin filaments extending through myosin filaments in the A-band

(D) extension of myosin filaments in the central portion of the A-band

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CORRECT ANSWER: C

SOLUTION:

H-zone in skeletal muscle is due to the central gap

between actin filaments extending through myosin filaments in the A-band. Alternate arrangerance of dark and light bands gives the striated appearance to a skeletal muscle. At the centre of A-band a comparatively less dark zone called H-zone is present. In the of H-zone, M-line is present formed by the threats that connect the myofilaments.

Q-46 - 14536851

In the resting muscle fibre, tropomysin partially covers

(A) calcium binding sites on troponin

(B) actin binding sites on myosis

(C) muyosin binding sites on actin

(D) calcium binding sites on actin.

CORRECT ANSWER: C

SOLUTION:

When the muscle is at rest, the tropomyosin molecule covers the binding site of the actin molecule where interaction with myosin occurs.

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Q-47 - 17935437

Which of the following joints would allow no movement

(A) Cartilaginous joint

(B) Synovial joint

(C) Ball and socket joint

(D) Fibrous joint

CORRECT ANSWER: D

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Q-48 - 34100664

Select the correct statement regarding the specific disorder of musclular or skeletal system.

(A) Muscular dystrophy-Age related shortening of muscles

(B) Osteoporsis-Decrease in bone mass and higher chances of fractures with advancing age

(C) Myasthenia gravis-Autoimmune disorder which inhibits sliding of myosin filaments

(D) Gout-Inflammation of joint due to extra deposition of calcium,

CORRECT ANSWER: B

SOLUTION:

Osteoporsis is related disease in which bones loose minerals and fibres from the matrix causing decrased bone mass and higher chances of fractures with advancing age. Major causative factors of osteoporsis are imbalance of hormones like calcitonin of thyroid, parathromone of parathyroids sex hormones and deficiencies of calcium and vitamins. The disease may be classified as primary type 1 primary type 2 or seconndary.

The form of osteoporosis most common in wonmen after menopause is referred to as primary type 1 or postmenopausal osteoperosis.

Secondary osteoporosis may arise at any age and affect men and women equally.

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Q-49 - 14536898

A cricket player is fast chasing ball in the field.Which one of the following group of bones is directly contributing in this movement ?

(A) Femur, malleus, tbia, metatarsals

(B) Pelvis, incus, petella, tarsal

(C) Sternum, femur, tibia,fibula

(D) Tarsal, femur, metatarsals,tibia

CORRECT ANSWER: D

SOLUTION:

Trasals, femur, metatarsals and tibia are bones of the legs which are involved in running during chasing the ball by a cricket player.

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Q-50 - 17935553

Assertion: Locomotion in Hydra is carried out by two types of contractile cells.

Reason: Muscle fibres are lacking in Hydra.

(A) If both the assertion and the reason are true and reason is a correct explanation of the assertion

(B) If both the assertioin and reason are true but the reason is not a correct explanation of the assertion.

(C) If the assertion is true but the reason is false

(D) If both the assertion and reason are false

CORRECT ANSWER: A

SOLUTION:

As muscle fibres are lacking in Hydra, the animal uses two types of contractile cells for this purpose. Processes of these cells run in the body wall both along the long axis of the body and arround the central body cavity. Contraction and releaxation of these cells respectively. shorten and elongate these processes. They consequently cause all types of movement of Hydra including shortening, elongation and also bending of body and tentacular movement Locomotion is carried out by somersaults looping.

Q-51 - 14536847

If a stimulus, several times greater than the threshold stimulus, is provided to a musclw fibre, it will

(A) contract with a larger force

(B) contract wit a smaller force

(C) contract with the same force

(D) undergo tetany.

CORRECT ANSWER: C

SOLUTION:

A muscle fibre would contract only when it receives a stimilation of certain intensity called threshol stimulus. Respones of a muscle fibre to a sitmulus is not proportionate will always contract with the maximum force irrespective of the strenght of the stimulus.

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Q-52 - 14536942

Which one of the following is not a disorder of bone ?

(A) Arthrists

(B) Osteoporosis

(C) Rickets

(D) Atherosclerosis

CORRECT ANSWER: D

SOLUTION:

Atheroscleriosis is a diorder of circulatory system.

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Q-53 - 17935357

Patella, the knee cap is the example of

(A) Cartilage gland

(B) Replacing bone

(C) Sesamoid bone

(D) None of the above

CORRECT ANSWER: C

SOLUTION:

Patella is the small bone in knee joint between femur and tibia. It is a sesamoid bone developed in the tendon of quadriceps ferroris muscle.

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Q-54 - 34100653

Which of the following is not a functioin of the skeletal system

(A) Production of erythrocytes

(B) Storage of minerals

(C) Production of body heat

(D) Locomotion

CORRECT ANSWER: C

SOLUTION:

Production of body heat is the function of muscles. The contraction of muscle produce heta, which keeps the body warm during the winters.

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Q-55 - 10761366

Which of the following muscular disorders is inherited?

(A) Botulism

(B) Tetany

(C) Muscular dystrophy

(D) Myasthenia gravis

CORRECT ANSWER: C

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Q-56 - 17935530

The Paget's disease is caused by

(A) Prolonged deficiency of vitamin D in adults

(B) Abnormal bone resortion by abnormal osteoclasts

(C) Excesss alkaline phosphatase

(D) Excess production and abnormal organization of

collagen

CORRECT ANSWER: B

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Q-57 - 17935338

Which of the following is unpaired bone

(A) Premaxilla

(B) Pro-otics

(C) Sphenethmoid

(D) Pterygoid

CORRECT ANSWER: C

SOLUTION:

The cranial segment is also cartilaginous is tadpole

larva, but later, most of it changes into a tubular bone called sphenethmoid.

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Q-58 - 14536852

Ends of long bones are covered with

(A) blood cells

(B) muscles

(C) cartilages

(D) ligaments.

CORRECT ANSWER: C

SOLUTION:

Hyaline cartilage is present at the end of long bones,

Hyline cartilage consists of clear, large amount of translucent, slightly elastic matrix with less fibres.

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Q-59 - 17935311

Sella turcica is a

(A) Covering of kidney

(B) Covering of testis

(C) Depression in brain

(D) Depression in skull which lodges the pituitary body

CORRECT ANSWER: D

SOLUTION:

Sella turcica or Turkish saddle' is a depression in the

floor of the mammalian skull in the sphenoid (Basi sphenoid) bone in which the pitutary body is lodged.

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Q-60 - 14536865

The cervical vertebra called axis provids head with sideways rotation. This can be because

(A) It is articulated to skull through occipital condyles

(B) it is fused with 1^{st} vertebra atlas

(C) it is joined through elastic pads of fibrocartilage with other vertebrae, which provide mobility

(D) it contains odontoid process that fits into the odontoid canal of atlas.

CORRECT ANSWER: D

SOLUTION:

Axis (second cervical vertebra) has a peg like process called odontoid process that first into odontoid canal of atlas (first cervical vertebra).