BIOLOGY

BOOKS - MODERN PUBLICATION

LOCOMOTION AND MOVEMENT

Exercise

1. Name two muscles of human body which are ectodermal in origin.

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2. What are myofibrils?

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3. Why do the muscle cells and nerve cells not have power of growth and regeneration?

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4. Name three types of muscles found inside the human body.

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5. List two structural diffrences between striated and unstriated muscles fibres.

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6. What is structural and functional unit of a muscle fibre?

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7. What do you mean by stratificatin of muscle fiber?

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8. Differentiate A-band and I-band.

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9. Write two strutural adaptations in striated muscle fibres to draw more energy.

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10. Why are striated muscles called sketletal muscles ?

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11. What do you mean by single - unit smooth muscles?

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12. List two structural peculiarities of cardiac muscle fibres.

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13. What is Z-line?Give its fuction.

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14. What is sarcoplasmic reticulum?

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15. Why we shiver during winter months?

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16. Name the most accepted theory of muscle contraction.

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17. Give the value off rest potential in polarized muscle fibre.

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18. Explain biochemical changes during muscle contraction.

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19. How is action potential generated?

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20. Name two energy sources for muscle contraction.

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21. What is the function of Ca^{++} in muscle contraction?

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22. What is the cause of muscle fatigue? How is it removed?

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23. Which type of skeletal flight muscles are found in kite?

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24. What is myoglobin?

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25. Who proposed sliding filament theory of muscle contraction?

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26. Name two types of elements of human skeleton.

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27. What are the number of bones in axial and appendicular skeleton of man?

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28. Which part of human skeleton forms the helmet for the protection of human brain?

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29. Through which aperture ,brain is continuous with spinal cord?

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30. Which type of jaw suspension is found in man?

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31. Name the tongue bone.

Watch Video Solution

32. Give the vertebral formula of man.

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33. Which vertebra has an odontoid process?

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34. What is the functin of odontoid process?

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35. Name a vestigeal bony part of human skeleton.

Watch Video Solution

36. Give the functin of intervertebral discs.

Watch Video Solution

37. Give the number of true ,false nd floating ribs in man.

Watch Video Solution

38. Name the breast bone.

Watch Video Solution

39. Name two bones of a pectoral girdle of man.

Watch Video Solution

40. Give the position of glenoid cavity.

Watch Video Solution

41. Name three bones of a pelvic girdle of man.

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42. Which cup lies at the junction of 3 bones of pelvic girdle?

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43. On which bone,deltoid ridge is present?

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44. What are carpals and tarsals?

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45. What is patella?

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46. What is arthritis? What are the causes of arthritis? Define sprain.

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47. What is osteoporosis?

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48. Name the autoimmune disease of body muscles.

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49. Define rigor mortis.

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50. What is the function of pubic symphysis?

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51. Why are the sutures immovable?

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52. Which type of joint lies at the shoulder joint and hip joint?

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53. List two sites with hinge joint.

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54. Define gene

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55. What is the cause of muscular dystrophy?

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56. Volkmann's canals occur in:

A. Cartilage

B. `Bone

C. internal ear

D. Liver

Answer:

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57. ATPase enzyme needed for muscle contraction is located in:

A. Myosin

B. Actin

C. Actinin

D. Troponin

Answer:

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58. Total number of bones found in right upper limb is:

A. 25

B. 26

C. 30

D. 60

Answer:

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59. Nucleus pulposus occurs in:

A. Brain

B. Liver

C. Kidney

D. Intervertebral discs

Answer:

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60. Correct order of ear ossicles in rabbit is:

A. Incus,stapes,malleus

B. Malleus,incus,stapes

C. Malleus,stapes,incus

D. Incus,malleus,stapes

Answer:

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61. Ribs attached to sternum are:

A. First seven pairs

B. All ten pairs

C. First ten pairs

D. First five pairs

Answer:

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62. Which of the following lubricates ligament and tendon and is the important constituent of synovial fluid?

A. Pectins

B. Lipids

C. hyaluronidase

D. Hyluronic aicd

Answer:

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63. The joint of radio-ulna with the upper arm is:

A. hinge joint

B. Pivot joint

C. Socket joint

D. None of these

Answer:

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64. Name the type of joint between the following: between public bones in the pelvic girdle

A. Ball an socket

B. Pivot

C. Saddle

D. Hinge

Answer:

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65. Write the biological importance of the following:

Synovial joints

A. Pivot joint

B. Fibrous joint

C. Ball and socket joint

D. All of these

Answer:

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66. ..... acts as a shock absorber to cushion when tibia and femur come together:

A. Disc

B. Tendon

C. Ligament

D. arilage

Answer:

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67. Which of the following assists in the locomotion of the organism stated?

A. Pedicellaria of starfish

B. Epithelium of Pheretima

C. Trichocysts of Paramecium

D. Posterior sucker of Hirudinaria.

Answer:

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68. human cranium has ..... bones:

A. 8

B. 14

C. 20

D. None of these

Answer:

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69. An acromian process is characteristically found in the :

A. Pelvic girdle of mammals

B. Skul of frog

C. Pectoral girdle of mammals

D. Sperm of mammals

Answer:

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70. Which one of the following pairs is not correctly matched?

A. Cartilaginous joint-skull bones

B. Hinge joint - between vertebrae

C. Fibrous joint-between phalanges

D. Gliding joint - between zygapophyses

Answer:

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71. Lumbar vertebrae in human skeleton are:

A. saccrum

B. Synsacrum

C. Coccyx

D. None of these

Answer:

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72. Knee joint is:

A. Synovial joint

B. Cartilaginous joint

C. Hyaline joint

D. Fibrous joint

Answer:

Watch Video Solution

73. If a muscle undergoes rapid contraction and relaxation ,the sarcoplasmic reticulum extension:

A. Required constant plugging in and out of calcium

B. Rapid synthesis of myosin

C. Do njot require energy

D. All of these

Answer:

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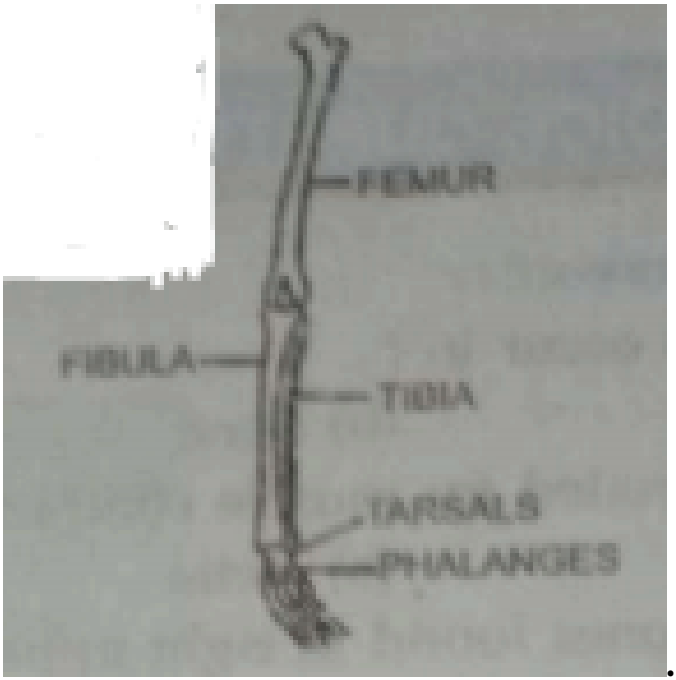
74. Given diagram sHown bone off left human hindlimb as seen from front.It has certain mistakes in labelling Two of the wrongly

labelled bones are:



A. Tivia and tarsals

B. Ferur and fibula

C. Fibula and phlanges

D. Tarsals and femur.

Answer:

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75. Exoskeleton is absent in:

A. Scoliodon

B. Frog

C. Rabbit

D. Fowl

Answer:

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76. Uricotelism is found in :

A. Muscles of arm

B. Vertebrae

C. Muscles of leg

D. Pubic symphysis

Answer:

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77. Which of the following is important for contraction and nerve impulse transmission?

A. Ca^{++}

B. Ca^{++} and Mg^{++}

C. Mg^{++}

D. Fe^{++}.

Answer:

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78. During strenous exercise ,glucose is converted into:

A. Strach

B. Glycogen

C. Pyruvijc acid

D. Lactic acid

Answer:

Watch Video Solution

79. What is the cause of muscle fatigue? How is it removed?

A. Na^+

B. K^+

C. Lactic acid

D. Citric acid

Answer:

Watch Video Solution

80. Lumbar vertebrae in human skeleton are:

A. 5

B. 7

C. 9

D. 12

Answer:

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81. Describe Lactic acid fermentation.

A. Spasm

B. Convulsion

C. Muscle fatigue

D. Tetany

Answer:

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82. In frog's heart,there are cardiac muscles which consist of fibres called:

A. Flexor

B. Twitch

C. Extensor

D. Involution

Answer:

83. Name the quantity which remains unchanged during the flight of an oblique projectile.

A. I

B. H

C. A

D. A-line

Answer:

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84. The contractile protein off skeletal muscle involving ATPase activity is:

A. Tropomyosin

B. Myosin

C. αActinin

D. Troponin

Answer:

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

A. Femur,malleus,tibia,metatarsals

B. Pelvis ,ulna,patella,tarsals

C. Sternum,fermur,tibia,fibula

D. Tarsals,femur,metatarslas,tibia

Answer:

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86. Largest muscle in the human body is:

A. Sartorius

B. Gluteus

C. Stapedius

D. Masseter

Answer:

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87. Articulation of femur with pelvic girdle is an example of:

A. Gliding joint

B. Ball and socket joint

C. Hinge joint

D. Pivot joint

Answer:

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88. Lower jaw of man is formed of :

A. One bone

B. Two bones

C. No bone,only muscles

D. Three bones

Answer:

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89. What is structural and functional unit of a muscle fibre?

A. Fasciculi

B. Muscle fibre

C. Bundle

D. Both (a) and (c)

Answer:

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90. The number of vertebrae present in cervical,thoracic ,lumbar ,sacral and coccyx regins respectively are:

A. 12,7,5,1,1

B. 1,7,512,1

C. 7,5,1,12,1

D. 7,12,5,1,1

Answer:

91. In human body,which one of the following is anatomically correct?

A. Cranial nerves,10 pairss

B. Floating ribs:2 pairs

C. Collar bones :3 pairs

D. Salivary glands:1 pair

Answer:

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92. Which one of the following is a skull bone?

A. Coracoid

B. Arytenoid

C. Atlas

D. Pterygoid

Answer:

Watch Video Solution

93. ATPase enzyme needed for muscle contraction is located in:

A. Actinin

B. Troponin

C. Myosin

D. Actin

Answer:

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94. The first digit of forearm is called:

A. Pollex

B. hallux

C. Index

D. None of these

Answer:

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95. Spongy or cancellous bones are:

Skull bones

Vertebrae

Femur

Ribs:

A. 1,2 and 3 are correct

B. 1 and 2 are correct

C. 2 and 4 are correct

D. 1 and 3 are correct

Answer:

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96. Glenoid cavity is found in :

A. Pelvic girdle

B. pectoral girdle

C. Sternum

D. Humerus

Answer:

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97. Bones become fragile in:

A. Osteoporosis

B. Gout

C. Arthritis

D. None of these

Answer:

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98. An acromian process is characteristically found in the :

A. Pelvic girdle of mammals

B. Skul of frog

C. Pectoral girdle of mammals

D. Sperm of mammals

Answer:

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99. Which one of the following pairs is not correctly matched?

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B. Hinge joint - between vertebrae

C. Fibrous joint-between phalanges

D. Gliding joint - between zygapophyses

Answer:

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100. Synsacrum of fowl is consist of about,

A. 29 vertebrae

B. 3 vertebrae

C. 16 vertebrae

D. Single vertebra

Answer:

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101. A sesamoid bone is:

A. Palatine

B. Pterygoid

C. Patella

D. Presphenoid

Answer:

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102. Globular protein molecule which masks the active sites on F-actin is:

A. Troponin

B. Tropomyosin

C. Myosin

D. Light meromyosin

Answer:

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103. Find out the correct order of number of bones in the parts of skull such as cranial bone, facial bone m,hyoid bone and middle ear bone respectivly:

A. 14,8,1 and 3

B. 3,8,14 and 1

C. 8,3,14 and 1

D. 8,14,1 and 3

Answer:

104. Acoelous vertebra of frog is :

A. 5th vertrtebra

B. Atlas vertebra

C. 8th vertebra

D. None of these

Answer:

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105. Number of bones in human skull is:

A. 26

B. 28

C. 107

D. 29

Answer:

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106. Hinge joint is present between f:

A. Femur and ulna

B. Humerus and ulna

C. Femur and petoral girdle

D. Femur and pelvic girdle

Answer:

Watch Video Solution

107. Select a sesamoid bone:

A. Patella

B. Femur

C. Ulna

D. Pterygoid

Answer:

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108. Accumulation of which of following in muscle causes fatigue ?

A. Acetic acid

B. Carboxylic acid

C. hydrochloric acid

D. Lactic acid

Answer:

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109. What connects muscle to bone?

A. Ligament

B. Cartilage

C. Tendon

D. Sarcomere

Answer:

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110. Basic unit of vertebrate kidney is:

A. Cell

B. Nephron

C. neuron

D. Ommatidium

Answer:

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111. Which one of the following items Gives its correct total number?

A. types of diabetes-3

B. Cervical vertebrae in humans-8

C. Floating ribs in humans-4

D. Amino acids found in proteins-16

Answer:

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112. During strenous exercise ,glucose is converted into:

A. Glycogen

B. Pyruvic acid

C. Strach

D. Lactic acid

Answer:

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113. Which of the following is important for muscle contraction?

A. Ca^{2+}

B. Mg^{2+}

C. Both (a) and (b)

D. Fe^{2+}

Answer:

Watch Video Solution

114. Number of bones in human skull is:

A. 26

B. 28

C. 107

D. 29

Answer:

Watch Video Solution

115. Globular protein molecule which masks the active sites on F-actin is:

A. G-actin

B. Actin

C. Tropomyosin

D. Troponin

Answer:

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116. Number of cervical vertebrae in mammals are:

A. 7

B. 8

C. 12

D. 6

Answer:

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117. The joint between atlas and axis is :

A. Ball and Socket joint

B. Pivot joint

C. Saddle joint

D. Angular joint

Answer:

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118. Elbow joint is an example of :

A. Pivot joint

B. Hinge joint.

C. Gliding joint

D. Ball and socket joint

Answer:

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119. Which one of the following is correct?

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120. Pick out the correct match:

A. Sternum==14 bones

B. Pelvis=3 bones

C. Ribs=20 bones

D. Face=5 bones

Answer:

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121. Which cartilage is present at the joints of long bones?

A. Calcified

B. Elastic

C. Hyaline

D. Fibrous

Answer:

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122. Innominate is:

A. A nerve

B. A vein

C. An artery

D. A part of skeleton and an artery

Answer:

Watch Video Solution

123. Thoracic cage in rabbit is made up of:

A. Ribs,vertebral column and diaphragm

B. Ribs,diaphragm and sternum

C. Vertebral column,diaphragm and sternum

D. Ribs,vertebral column and sternum

Answer:

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124. Acoelous vertebra of frog is :

A. Procoelous

B. Aceolous

C. Amphicoelous

D. Amphiplatyan

Answer:

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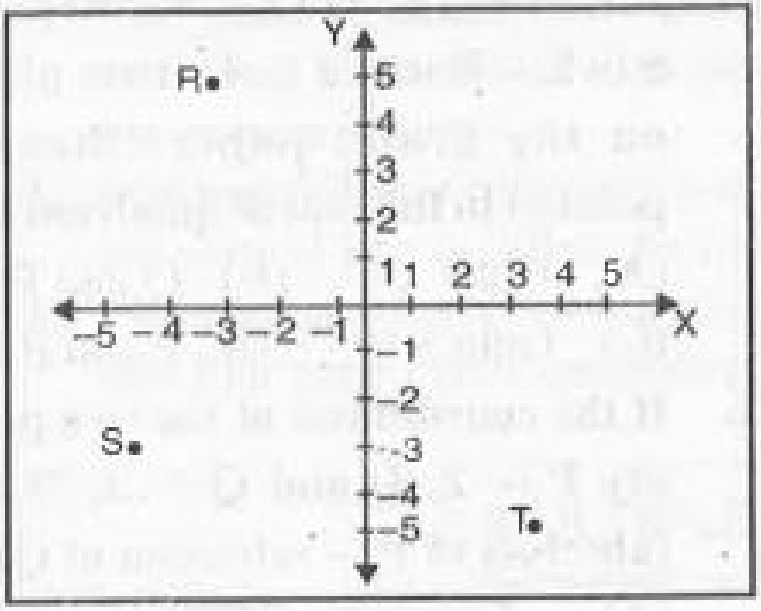
125. In fig., the point identified by the coordinates $(-5, -3)$ is :



A. Sibmoid notch

B. Deltoid ridge

C. Odontoid process

D. Centrum

Answer:

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126. Which one of the following is correct?

A. Pareital bone and temporal bone of the skull are joined by fibrous joint

B. First vertebra is axis which articulates with the occipital condyles

C. The 9th and 01 th pairs of ribs are called floating ribs

D. Glenoid cavity is a depresstion to which the thigh bone articuates

Answer:

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127. Pectoral girdle constitute:

A. Scapula and clavicle

B. Radius and ulna

C. Ilium and ischium

D. Maxilla and mandible

Answer:

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128. End plate junction is present between:

A. neuron and striated muscle

B. Neuron and neuron

C. Muscle and muscle

D. Both (b) and (c)

Answer:

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129. Acetabulum is present in :

A. Pelvic girdle of rabbit

B. Pectoral girdle of rabbit

C. Both (a) and (b)

D. None of these

Answer:

Watch Video Solution

130. Opening in the skull of rabbit is :

A. Foramen of Monro

B. Coronal suture

C. Foramen magnum

D. Lambdoidal suture

Answer:

Watch Video Solution

131. The membranous areas between the cranial bones of foetal skull are called:

A. Areolas

B. Foramina

C. Sutures

D. Fontanelle

Answer:

Watch Video Solution

132. Give one example of pivotal joint?

A. Hip joints

B. Metacarpophalangeal joints

C. Ankle joint

D. Radio ulnar joint

Answer:

Watch Video Solution

133. Give the functin of intervertebral discs.

A. Absorb shock

B. String the vertebrae together

C. Prevent injuries

D. Prevent hyper extenstion

Answer:

Watch Video Solution

134. Explain briefly the various types of plant movements

A. Rib no.1-2

B. Rib no.3-5

C. Rib no.6-10

D. Rib no.11-12

Answer:

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135. In the resting muscle fibre ,tropomyosin partially covers:

A. Ca-bindng sites of troponin

B. Actin-binding sites off myosin

C. Myosin-binding sites of actin

D. Ca-binding sites on actin

Answer:

136. in human beings,the cranium is formed by:

A. Eight bones of which two are paired

B. Fourteen bones of which six paired

C. Ten bones of which two are paired

D. Twelve bones of which four are paired

Answer:

Watch Video Solution

137. Actin - binding sites are located on:

A. Troponin

B. Tropomyosin

C. Mereomyosin

D. Both tropomysin and meromyosin

Answer:

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138. Scapula is a large traingular flat bone situated in the dorsal part of the thorax between:

A. The second and fifth ribs

B. The second and seventh ribs

C. The third and sixth ribs

D. The third and eighth ribs

Answer:

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139. The coxal of the pelvic girdle is formed by the fusion of :

A. Ilium,ischium and pubis

B. Scapula and clavicle

C. ilium and scapula

D. ilium , scapula and ischium

Answer:

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140. Fill in the blancks

miniumum strength of stimulus required to initiate mucle contraction is..... .

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141. What is structural and functional unit of a muscle fibre?

Watch Video Solution

142. Fill in the blancks

the skull bones are joined by ..... tissue while the bodies of vertebrae are joined by ..... tissue.

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143. Fill in the blancks

Dark bands of muscle fibres are made of ..... protein while light bands of muscle fibres are made of ..... proteins.

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144. Fill in the blancks

Bio-chemical changes inmuscle contraction were explained by.....

Watch Video Solution

145. On which bone,deltoid ridge is present?

Watch Video Solution

146. Fill in the blank

Pelvic girdle is formed by fusion of three bones-ilium, ischium and .....

Watch Video Solution

147. Fill in the blancks

Depressed activity of osteoblasts lead to disease called..... ./

Watch Video Solution

148. Fill in the blanks

..... is cup-like depression in pelvic girdle.

Watch Video Solution

149. Fill in the blanks

..... bones are present in wrist of hand while..... bones are present in ankle of foot.

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150. Fill in the blancks

..... muscle fibres are involved in rapid contraction for short duration while ..... muscle fibres are involved in slow contraction for long period.

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151. Fill in the blanks

Joint of femur with pelvic girdle is ..... joint.

Watch Video Solution

152. Give one example of hinge joint?

Watch Video Solution

153. Fill in the blancks

Humerus ,radius and ..... bones are found in the forearm.

Watch Video Solution

154. Fill in the blanks

Acetabulum is present in the ..... girdle.

Watch Video Solution

155. State True or False Sarcomere is covering of striated muscle fibre.

Watch Video Solution

156. Write true or false:

Red muscles are slow acting while white muscles are fast acting.

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157. Write true or false:

Glenoid cavity is present in pelvic girdle while acetabulum is present in pectoral girdle.

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158. Write true or false:

Bone forming cells are called osteoclasts while bone dissolving cells are called osteoblasts.

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159. True and False:

In the vertebrates, thye ATP is regenerated by phosphagens like phosphocreatine and phosphaginine.

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160. True and False:

Bones of wrist are tarsals while bone of ankle are carpals.

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161. True and False:

Man has dicondylic skull

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162. True and False:

Astragalus and calcaneum bones are found in fore limb of frog.

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163. Write true or false:

obturator forament is found in pelvic girdle.

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164. Write true or false:

Stapes is smallest bone of human skeleton while Tibia is longest bone of human skeleton.

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165. Mark the odd one in each series:

Ilium,ileum,ischium,pubis.

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166. Mark the odd one in each series:

Sarcomere,actin filaments,myosin filaments,sarcoplasmic reticulum.

Watch Video Solution

167. Mark the odd one in each series:

Clavicel,scapula,glenoid cavity,innominate bone.

Watch Video Solution

168. Mark the odd one in each series:

Osteoblasts,periosteum,Haversian

canals,chondrin.

Watch Video Solution

169. Mark the odd one

Watch Video Solution

170. Mark the odd one in each series:

Symphysis,knee joint,ankle joint,elbow joint.

Watch Video Solution

171. Mark the odd one

Watch Video Solution

172. Mark the odd one

Watch Video Solution

173. Mark the odd one

Watch Video Solution

174. Mark the odd one in each series:

Sarcolemma,neurilemma,sarcomere,sarcoplasm.

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175. State the relationship between first two words and suggest a suuitable word for the fourth place:

Forelimb:Humerus::Hindlimb:..... .

Watch Video Solution

176. State the relationship between first two words and suggest a suuitable word for the fourth place:

Pelvic girdle:Acetabulum::Pectoral girdle:..... .

Watch Video Solution

177. State the relationship between first two words and suggest a suuitable word for the fourth place:

Wrist:Carpals::Ankle:..... .

Watch Video Solution

178. State the relationship between first two words and suggest a suuitable word for the fourth place:

Inflammation of cartilages:Osteoarthritis:Inflammation of synovial membrane:..... .

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179. State the relationship between first two words and suggest a suitable word for the

fourth place:

Support of head : Atlas::Rotatory movements of head:..... .

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180. Give the reason for the following statements:

Sutures are immovable joints.

Watch Video Solution

181. Give the reason for the following statements:

Atlas vertebra is also called yes bone.

Watch Video Solution

182. Give the reason for the following statements:

Pelvis of human female is shallower and broader than that of human male.

Watch Video Solution

183. Give the reason for the following statements:

Two pelvic girdles are joined by a pubic symphysis.

Watch Video Solution

184. Give the reason for the following statements:

Elbow joint is called hinge joint.

Watch Video Solution

185. Give the reason for the following statements:

Arthritis is a common disease of old age.

Watch Video Solution

186. Give the reason for the following statements:

After menopause,human female generally suffers from osteoporosis.

Watch Video Solution

187. Give the reason for the following statements:

White muscle fibres undergo early fatigue.

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188. These questions consist of two statements each,printed as Assertion and Reason.While asnwering these questions you are required to chose any one of the following

four responses.

If both Assertion and Reason are true and Reason in correct explanation of Assertion.

If both assertion and Reason are true but reason is not correct explanation of Assertion.

If Assertion is true but Reason is false.

If both Assertion and Reason are false.

Assertion:Human vertebrae are called amphiplatyan type.

Reason:Centrum of verebrae is flat on both sides.

A. A

B. B

C. C

D. D

Answer:

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189. These questions consist of two statements each,printed as Assertion and Reason.While asnwering these questions you are required to chose any one of the following

four responses.

If both Assertion and Reason are true and Reason in correct explanation of Assertion.

If both assertion and Reason are true but reason is not correct explanation of Assertion.

If Assertion is true but Reason is false.

If both Assertion and Reason are false.

Assertion:Osteoarthritis is also called wear and tear disease.

Reason:In osteoarthritis,there is inflammation and degeneration of cartilages at the joints.

A. A

B. B

C. C

D. D

Answer:

Watch Video Solution

190. These questions consist of two statements each,printed as Assertion and Reason.While answering these questions you are required to chose any one of the following

four responses.

If both Assertion and Reason are true and Reason in correct explanation of Assertion.

If both assertion and Reason are true but reason is not correct explanation of Assertion.

If Assertion is true but Reason is false.

If both Assertion and Reason are false.

Assertion:Intervertebral discs are tough and strong than the pinna of man.

Reason:Intervertebral discs are formed of fibro cartilages while pinna is with calcified cartilage.

A. A

B. B

C. C

D. D

Answer:

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191. These questions consist of two statements each,printed as Assertion and Reason.While asnwering these questions you are required to

chose any one of the following four responses.

If both Assertion and Reason are true and Reason in correct explanation of Assertion.

If both assertion and Reason are true but reason is not correct explanation of Assertion.

If Assertion is true but Reason is false.

If both Assertion and Reason are false.

Assertion:Birds are with pneumatic bones.

Reason:Air sacs make the bones lighter which helps in the flight of the birds.

A. A

B. B

C. C

D. D

Answer:

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192. These questions consist of two statements each,printed as Assertion and Reason.While asnwering these questions you are required to chose any one of the following four responses.

If both Assertion and Reason are true and Reason in correct explanation of Assertion.

If both assertion and Reason are true but reason is not correct explanation of Assertion.

If Assertion is true but Reason is false.

If both Assertion and Reason are false.

Assertion:In muscle contraction,length of both A-bands and I-bands decrease.

Reason:Both myosin of A-bands and actin of I-bands are contractile proteins and decrease in size during muscle contraction.

A. A

B. B

C. C

D. D

Answer:

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193. These questions consist of two statements each,printed as Assertion and Reason.While answering these questions you are required to chose any one of the following

four responses.

If both Assertion and Reason are true and Reason in correct explanation of Assertion.

If both assertion and Reason are true but reason is not correct explanation of Assertion.

If Assertion is true but Reason is false.

If both Assertion and Reason are false.

Assertion:During exercise , a person undergoes fatigue very soon.

Reason:During this period ,muscle fibres undergo oxygen debt.

A. A

B. B

C. C

D. D

Answer:

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194. These questions consist of two statements each,printed as Assertion and Reason.While asnwering these questions you are required to chose any one of the following

four responses.

If both Assertion and Reason are true and Reason in correct explanation of Assertion.

If both assertion and Reason are true but reason is not correct explanation of Assertion.

If Assertion is true but Reason is false.

If both Assertion and Reason are false.

Assertion:Pigeons and kites can fly for long period without undergoing fatigue.

Reason:These birds have white muscle fibres which undergo slow and sustained contraction for long period.

A. A

B. B

C. C

D. D

Answer:

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195. These questions consist of two statements each,printed as Assertion and Reason.While answering these questions you

are required to chose any one of the following four responses.

If both Assertion and Reason are true and Reason in correct explanation of Assertion.

If both assertion and Reason are true but reason is not correct explanation of Assertion.

If Assertion is true but Reason is false.

If both Assertion and Reason are false.

Assertion:Cartilage(protein matrix)and bone (calcium matrix) are rigid connective tissues.

Reason:Blood is conncective tissue in which plasma is matrix.

A. A

B. B

C. C

D. D

Answer:

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196. These questions consist of two statements each,printed as Assertion and Reason.While asnwering these questions you

are required to chose any one of the following four responses.

If both Assertion and Reason are true and Reason in correct explanation of Assertion.

If both assertion and Reason are true but reason is not correct explanation of Assertion.

If Assertion is true but Reason is false.

If both Assertion and Reason are false.

Assertion:Inflammation of skeletal joint may immobilize and movements of joints.

Reason:Uric acid crystals in the joint cavity and ossification of articular cartilages lead to this.

A. A

B. B

C. C

D. D

Answer:

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197. Name the protein present in A-band and I - band.

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198. Name the two types of myofilaments in a sarcomere.

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199. Fill in the blank

.....causes the depolarisation of the sarcolemma of muscle fibre.

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200. Give an example of slightly movable joint.

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201. Give the position of glenoid cavity.

Watch Video Solution

202. Give the smallest and longest bone of human skeleton.

Watch Video Solution

203. Give the location of foramen magnum and neural canal.

Watch Video Solution

204. What is craniostylic jaw suspension?

Watch Video Solution

205. Give the location of carpals and tarsals.

Watch Video Solution

206. Name three bones of a pelvic girdle of man.

Watch Video Solution

207. Give the vertebral formula of man.

Watch Video Solution

208. Where are deltoid ridge and odontoid process located?

Watch Video Solution

209. Which bones are associated with :

supporting of head,

Watch Video Solution

210. Which bones are associated with :

supporting of head,

Watch Video Solution

211. Give the number of true ,false nd floating ribs in man.

Watch Video Solution

212. Name a sesamoid bone.Give its position.

Watch Video Solution

213. Name the kind of joint which permits movements in a single plane.

Watch Video Solution

214. What is fibrous joint?

Watch Video Solution

215. What is a pivot joint?

Watch Video Solution

216. What is muscle twitch?

Watch Video Solution

217. Name the pigment present in red muscle fibres.

Watch Video Solution

218. Name the type of filaments which constitute A- Band (Dark band) and I - band (Light band).

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219. State any two characteristics of muscle fatgue.How is it caused?

Watch Video Solution

220. How many bones are present in human cranium?

Watch Video Solution

221. Give one example of hinge joint?

Watch Video Solution

222. Name the cavity in the girdle into which the head of femur fits.

Watch Video Solution

223. Mention the role of ligaments in human body.

Watch Video Solution

224. What is total number of bones present in the left pectoral girdle and left arm respectively in a normal human?

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225. What is arthritis? What are the causes of arthritis? Define sprain.

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226. What is rheumatoid arthritis?

Watch Video Solution

227. What is osteporosis

Watch Video Solution

228. How many vertebrate are present in the vertebral column of man?

Watch Video Solution

229. Differentiate fibrous joint and cartilaginous joint.

Watch Video Solution

230. Differentiate between true,false and floating ribs.

Watch Video Solution

231. Differentiate osteoarthritis and rheumatoid arthritis.

Watch Video Solution

232. What is arthritis? What are the causes of arthritis? Define sprain.

Watch Video Solution

233. What are synovial joints?Explain.

Watch Video Solution

234. What is a pivot joint?

Watch Video Solution

235. Why a red muscle fibre can work for a prolonged time while a white muscle fibre suffers from fatigue after a short work?

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236. List any four functions of skeletal system.

Watch Video Solution

237. What makes the synovial joint freely movable ?List any four types of synovial joints.

Watch Video Solution

238. What is synovial joint?With the help of one example for each ,point out the differences between a ball and socket joint,and a pivot joint.

Watch Video Solution

239. Contrast between the following :

Muscle twitch and tetanus.

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240. What is role of calcium in muscle contraction?

Watch Video Solution

241. What makes the synovial joint freely movable ?List any four types of synovial joints.

Watch Video Solution

242. What causes muscle fatigue ?How is it removed?

Watch Video Solution

243. Human has three kinds of ribs.Name these with example.

Watch Video Solution

244. Give two differences between rhematoid arthirits and gouty arthritis.

Watch Video Solution

245. What is osteoporosis?

Watch Video Solution

246. Write the difference between: Red and White muscles

Watch Video Solution

247. What is joint?Discuss its types with examples.

Watch Video Solution

248. Distinguish between:

Ball and socket joint and hinge joint.

Watch Video Solution

249. Differentiate between fixed joint and synovial joint.

Watch Video Solution

250. Give a list of bones and theri number in the human body.

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251. Give the biological importance of:

Myosin and actin filaments

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252. Give the biological importance of:

Myoglobin

Watch Video Solution

253. Write the biological importance of the following:

Synovial joints

Watch Video Solution

254. Write the biological importance of the following:

Fibrous joints

Watch Video Solution

255. Give the biological importance of:

Lactic acid.

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256. How are thick and thin filaments arranged in a muscle fibre?

Watch Video Solution

257. Elucidate the types of movements found among the animals.

Watch Video Solution

258. How does the muscle shorten during its contraction and lengthen during its relaxation?

Watch Video Solution

259. What is synovial joint?With the help of one example for each ,point out the differences between a ball and socket joint,and a pivot joint.

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260. Give the summary of the chemical events involved in the process of musle contraction

Watch Video Solution

261. Why are movements and locomotion necessary among the animals?

Watch Video Solution

262. Explain the sliding filament theory of muscle contraction.

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263. Explain the initiation of muscle contraction. What is the role of sarcoplasmic reticulum, myosin head and F-actin during contraction of striated muscles?

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264. Name the category of bones forming the rib cage. How are these articulated to each other to form the cage?

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265. What is the role if calcium ions, troponin and F-Actin during contraction of striated muscles of humans?

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266. Explain giving one example of each, the three types of joints in human skeleton, based on the capacity of movement.

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267. Write short notes on synovial joints.

Watch Video Solution

268. What is the cause of muscle fatigue? How is it removed?

Watch Video Solution

269. Explain biochemical changes during muscle contraction.

Watch Video Solution

270. Describe various kinds of skeletal joints in the body accroding to their mobility giving one example of each.

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271. Write five basic functions of human skeleton.

Watch Video Solution

272. How do you account for 206 bones in the human skeleton?

Watch Video Solution

273. What is the mechanism of muscular contraction?

Watch Video Solution

274. Differentiate between ball & socket and hinge joint.

Watch Video Solution

275. Describe different types of joints .Give examples.

Watch Video Solution

276. What is the mechanism of muscular contraction?

Watch Video Solution

Example

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

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2. Define sliding filament theory of muscle contraction.

Watch Video Solution

3. Describe the important steps in muscle contration.

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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.

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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. True or False

There are 11 pairs of ribs in man.

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

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9. Write the difference between: Actin and Myosin

Watch Video Solution

10. Write the difference between: Red and White muscles

Watch Video Solution

11. Write the difference between: Pectoral and Pelvic girdle

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12. Match column-I with column-II.

Column I	Column II
(a) Smooth muscle	(*i*) Myoglobin
(b) Tropomyosin	(*ii*) Third-class lever
(c) Red muscle	(*iii*) Thin filament
(d) Skull	(*iv*) Sutures
	(*v*) Involuntary

.

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13. What are the different types of movements exhibited by the cells of human body?

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14. How do you distinguish between a skeletal muscle and a cardiac muscle?

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15. Name the type of joint between the following: atlas/axis

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16. Name the type of joint between the following: carpal/metacarpal of thumb

Watch Video Solution

17. Name the type of joint between the following: between phalanges

Watch Video Solution

18. Name the type of joint between the following: femur/acetabulum

Watch Video Solution

19. Name the type of joint between the following: between cranial bones

Watch Video Solution

20. Name the type of joint between the following: between public bones in the pelvic girdle

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21. Fill in the blank spaces: All mammals (except a few) have _____ cervical vertebra.

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22. Fill in the blank spaces: The number of phalanges in each limb of human is _____

Watch Video Solution

23. Fill in the blank spaces: Thin filament of myofibril contains 2 F actins and two other proteins namely _____ and _____.

Watch Video Solution

24. Fill in the blank spaces: In a muscle fiber Ca^{++} is stored in _____

Watch Video Solution

25. Fill in the blank spaces: _____ and _____pairs of ribs are called floating ribs.

Watch Video Solution

26. Fill in the blank

The human cranium is made of .....bones.

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