



BIOLOGY

BOOKS - UNIVERSAL BOOK DEPOT 1960 BIOLOGY (HINGLISH)

LOCOMOTION AND MOVEMENT

Locomotion And Movement

1. Bone marrow is largely composed of

- A. Periosteum and osteoblast
- B. Adipose tissue and blood vessels
- C. Yellow and elastic tissue
- D. Cartilage and elastic tissue

Answer: B



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2. Collar bone is known as

- A. Scapula
- B. Coracoid
- C. Stapes
- D. Clavicle

Answer: D



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3. The bony sockets of the jaws in which the teeth are implanted, are known as

- A. Alveolus
- B. Fossae

C. Dentaries

D. Thecae

Answer: A



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4. The type of vertebrae in sub-order ophidia is

A. Amphicoelous

B. Acoelous

C. Heterocoelous

D. Procoelous

Answer: D



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5. Number of cranial nerves in mammal are

A. 10 pairs

B. 8 pairs

C. 12 pairs

D. 16 pairs

Answer: C



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6. 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

Answer: D



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7. The first vertebra, the atlas by its articulation with axis vertebra facilitates a

- A. Noding movement
- B. Sideway movement
- C. Rotatory movement
- D. Backward movement

Answer: C



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8. The vertebrae in which centrum is absent and transverse process are present is known as

- A. Lumbar vertebrae
- B. Anterior thoracic
- C. Axis vertebrae
- D. Atlas vertebrae

Answer: D



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9. The number of vertebrae present in cervical, thoracic, lumbar, sacral and coccyx regions respectively are

- A. 12, 7, 5, 1,1
- B. 1, 7, 5, 12, 1
- C. 7, 5, 1, 12,1

D. 7, 12, 5, 1, 1

Answer: D



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10. 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: C



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11. Find out the correct order of number of bones in the parts of skull such as cranial bone, facial bone, hyoid bone and middle ear bone respectively

A. 14, 8, 1 and 6

B. 6, 8, 14 and 1

C. 14, 8, 6 and 1

D. 8, 14, 1 and 6

Answer: D



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12. The number of vertebrae in rabbit is

A. 40

B. 33

C. 44

D. 46

Answer: B



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13. Lumbar vertebrae are found in

A. Neck region

B. Abdominal region

C. Hip region

D. Thorax

Answer: B



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14. The skull of a bird is

- A. Dicondylic
- B. Monocondylic
- C. Amphicondylic
- D. None of these

Answer: B

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15. The opening at the base of the skull for the spinal cord is called

- A. Foramen Magnum
- B. Foramen of Monro
- C. Obturator foramen
- D. Foramen of Magendie

Answer: A

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16. The 8th and 9th ribs are known as false ribs because their external portions are attached to

- A. Xiphisternum
- B. Costa of 7th rib
- C. They have no costa
- D. They are not true ribs

Answer: B



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17. Which one is not cranial bone

- A. Frontal
- B. Zygomatic
- C. Temporal

D. Sphenoid

Answer: B



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18. Thoracic cage in rabbit is made up of

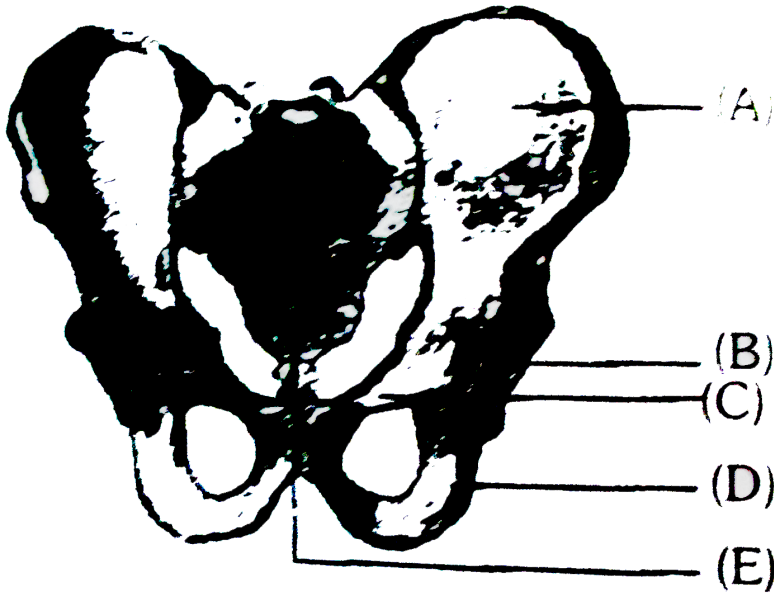
- A. Ribs, vertebral column and diaphragm
- B. Ribs, diaphragm and sternum
- C. Vertebral column, diaphragm and sternum
- D. Ribs, vertebral column & sternum

Answer: D



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19. 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

Answer: B

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20. The vertebrae in birds are mostly

- A. Procoelous
- B. Amphicoelous
- C. Opisthocoelous
- D. Heterocoelous

Answer: D



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21. 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. $C_5T_{10}L_5S_5C_{3-5} = 33$
- D. $C_7T_{10}L_5S_5C_{3-5} = 33$

Answer: B



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22. Centrum of man is

A. Procoelus

B. Amphicoelus

C. Amphiplateus

D. Ophisthocoelous

Answer: C



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23. Long neck of camel is due to

A. Increase in length of cervical vertebra

- B. Due to bony plate between two vertebra
- C. Due to muscle in between two vertebra
- D. None of the above

Answer: B

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24. 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

Answer: D

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25. In which bone the chondrocytes are replaced by osteocytes

- A. Maxilla
- B. Nasal
- C. Dentary
- D. Vomer

Answer: C



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26. Which one of the following is the correct description of a certain part of a normal human skeleton

- A. Parietal bone and the 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 10th pairs of ribs are called the floating ribs

D. Glenoid cavity is a depression to which the thigh bone articulates

Answer: A



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27. The number of floating ribs in human body is

A. 6 pairs

B. 3 pairs

C. 5 pairs

D. 2 pairs

Answer: D



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28. Centrum of 8th vertebra of frog is

A. Amphiplatyon

B. Procoelous

C. Amphicoelous

D. Opisthocoelous

Answer: C



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29. In the first two or three lumbar vertebrae there is a small median process below the centrum, this is called

A. Pre-zygapohysis

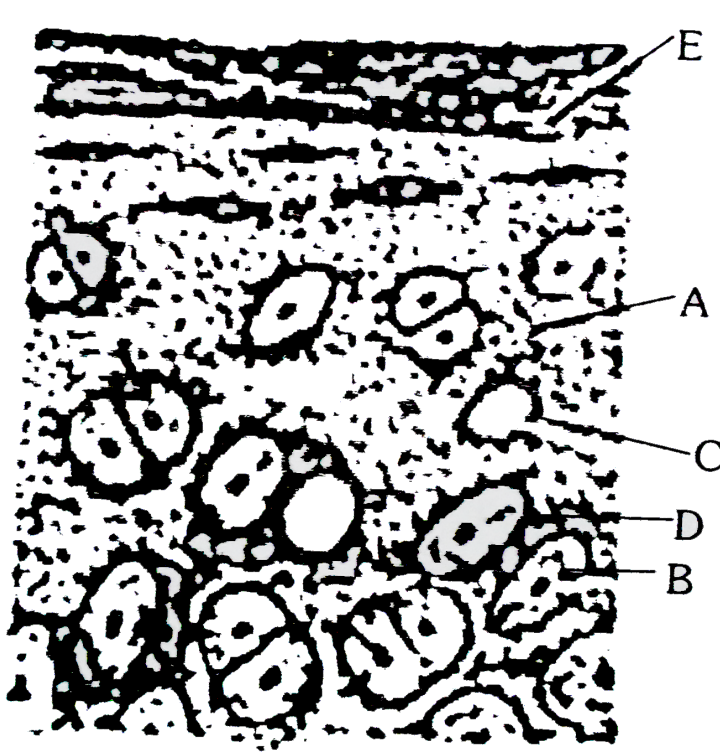
B. Post-zygapohysis

C. Hypapophysis

D. Neural spine

Answer: C

30. In the diagram of section of Hyaline cartilage, the different parts have been indicated by alphabets, choose the answer in which these alphabets correctly match with parts they indicate



A. A= perichondrium , B= Chondrocyte

C=Lacuna , D=Capsular matrix

E=Chondrin

B. A=Capsular matrix , B=Chondrocyte

C=Lacuna , D=Perichondrium

E=Chondrin

C. A=Chondrin , B=Chondrocyte

C=Lacuna , D=Capsular matrix

E=Perichondrium

D. A=Chondrin , B=Lacuna

C=Chondrocyte , D=Capsular matrix

D=Perichondrium

Answer: C



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31. Bone related to skull is

A. Atlas

B. Caracoid

C. Artenoid

D. Pterygoid

Answer: D



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32. What is correct about human body

A. There are 5 vertebra in the neck

B. Brain box is made up of 4 bones

C. There are 15 pairs of ribs

D. There are 12 thoracic vertebra

Answer: D



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33. In mammals (rabbit), the zygomatic arch is formed by

- A. Maxilla, premaxilla and squamosal
- B. Pariotic, jugal and palatine
- C. Maxilla, squamosal and jugal
- D. Jugal, maxilla and parietal

Answer: C



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

- A. Procoelous
- B. Amphicoelous
- C. Acoelous
- D. Amphiplatyon

Answer: C



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35. 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 7th pair of ribs
- C. Their sternal parts remain free and do not even reach the sternum
- D. They float in the body cavity

Answer: C



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36. Special fibrous joint occurring exclusively in skull which is the tightest type of joint is

- A. Suspensorium
- B. Suspensory ligament
- C. Suture
- D. Occipital

Answer: C

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37. The vertebrae which bears the whole weight of the skull is

- A. Axis
- B. Sacral
- C. Cervical
- D. Atlas

Answer: D

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38. The parasphenoid bone in frog forms

- A. Base of cranium
- B. Floor of cranium
- C. Dorsal side of cranium
- D. Dorsolateral side of cranium

Answer: B



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39. How many ribs are present in human beings

- A. 6 pairs
- B. 9 pairs
- C. 12 pairs

D. 15 pairs

Answer: C

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40. Axis vertebra of a mammal differs from atlas in

- A. Absence of centrum
- B. Presence of centrum
- C. Presence of central canal
- D. Presence of odontoid process

Answer: D

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41. Number of bones in skull is

A. 26

B. 28

C. 107

D. 29

Answer: B

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42. In human beings the cranium is formed by

A. Eight bones of which two are paired

B. Fourteen bones of which six are paired

C. Ten bones of which two are paired

D. Twelve bones of which four are paired

Answer: A

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43. Which of the following is unpaired bone

- A. Premaxilla
- B. Pro-otics
- C. Sphenethmoid
- D. Pterygoid

Answer: C



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44. In man the axial skeleton is made up of

- A. 80 bones
- B. 100 bones
- C. 103 bones

D. 106 bones

Answer: A



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45. The number of bones in half of the lower jaw of man is

A. 1

B. 4

C. 6

D. 8

Answer: A



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46. In man the thoracic basket is composed of

- A. Ribs and thoracic vertebrae
- B. Ribs and stemum
- C. Ribs, sternum and vertebrae
- D. Ribs, sternum and thoracic vertebrae

Answer: D

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47. Innominate is a

- A. Nerve
- B. Muscle
- C. Animal
- D. A part of skeleton and anartcry

Answer: D

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48. Tongue bone is

- A. Hyoid bone
- B. Maxillary
- C. Dentary
- D. Quadrato-jugal

Answer: A



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49. Human vertebral column of 33 vertebrae and _____ bones

- A. 33
- B. 26
- C. 27

D. 29

Answer: B



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50. Cervical vertebrae are located in

- A. Thoracic region
- B. Abdominal region
- C. Neck region
- D. Lumbar region

Answer: C



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51. The number of cervical vertebrae in camels is

- A. Same as that in rabbit
- B. Same as that in frog
- C. Less than that in giraffe
- D. More than that in horse

Answer: A

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52. The major function of the intervertebral discs is to

- A. Absorb shock
- B. String the vertebrae together
- C. Prevent injuries
- D. Prevent hyperextension

Answer: A

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53. 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, The ribs are attached dorsally to vertebral column and ventrally to 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

Answer: A



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54. 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

Answer: D



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55. A shallow depression in the scapula which receives the head of the upper arm bone is known as the

Or

Which one of the following component is the part of pectoral girdle

- A. Acetabulum
- B. Neural arch

C. Glenoid cavity

D. None of the above

Answer: C



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56. Patella, the knee cap is the example of

A. Cartilage gland

B. Replacing bone

C. Sesamoid bone

D. None of the above

Answer: C



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57. The protein present in the bones is known as

- A. Chondrin
- B. Ossein
- C. Sclero protein
- D. Globulin

Answer: B



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58. Humerus bone is situated in

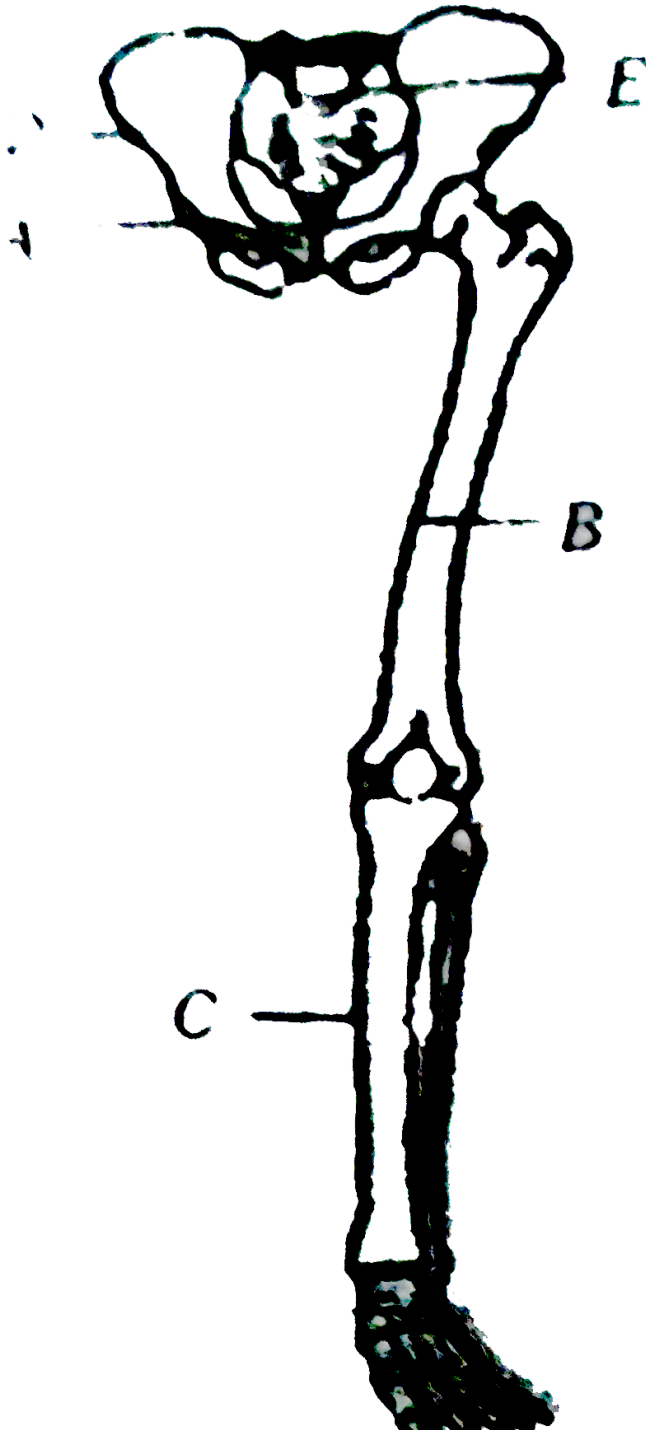
- A. Thigh
- B. Lower arm
- C. Upper arm
- D. Shank

Answer: C



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59. Consider the diagram given below





Parts labelled as 'A', 'B', 'C', 'D' and 'E' respectively indicate

- A. Femur, Ilium, Tibia, Pubis and Sacrum
- B. Pubis, Tibia, Femur, Ilium and Sacrum
- C. Ilium, Femur, Tibia, Pubis and Sacrum
- D. Pubis, Femur, Tibia, Ilium and Sacrum

Answer: D



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60. Symphysis contains

- A. Hyaline cartilage
- B. Fibrous cartilage
- C. Calcified cartilage
- D. None of these

Answer: B



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61. Outer covering of cartilage is

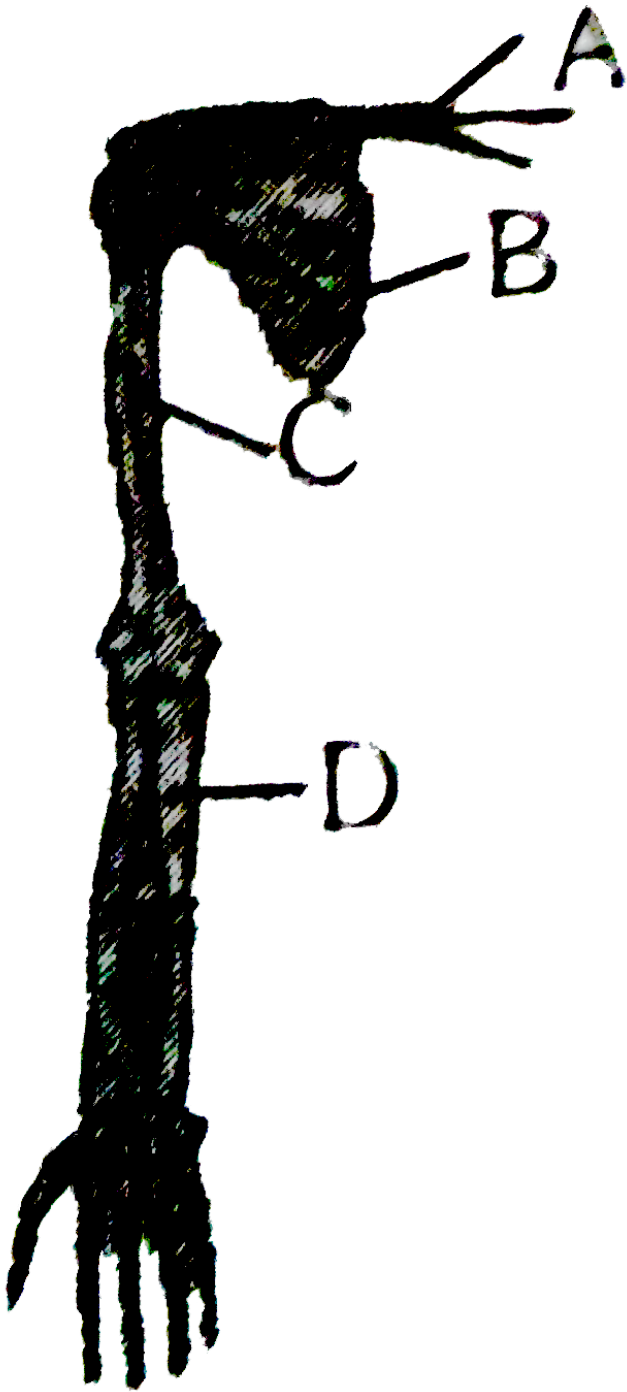
- A. Perichondrium
- B. Periosteum
- C. Endo-osteium
- D. Peritonium

Answer: A



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62. Which option is correct for the region labelled as a, b, c and d in the given diagram



A. A-Clavicle, B-Scapula, C-Humerus, D-Ulna

B. A-Scapula, B-Clavicle, C-Humerus, D-Ulna

C. A-Clavicle, B-Ulna, C-Radius, D-Humerus

D. A-Clavicle, B-Glenoid cavity, C-Radius, D-Ulna

Answer: A



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63. The longest bone of the human body is

A. Humerus

B. Tibia

C. Vertebra

D. Femur

Answer: D



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64. Olecranon fossa is present over

- A. Scapula
- B. Ulna
- C. Radius
- D. Humerus

Answer: D



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65. Synsacrum of fowl is consist of about

- A. 29 vertebrae
- B. 3 vertebrae
- C. 16 vertebrae
- D. Single vertebrae

Answer: C



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66. The pelvic girdle of birds is attached to a complex structure formed by the fusion of last thoracic, all lumbar and first five caudal vertebra. This structure is called

Or In birds, some of the vertebrae are fused

to form

A. Symsacrum

B. Symphysis

C. Synkaryon

D. Sympelvis

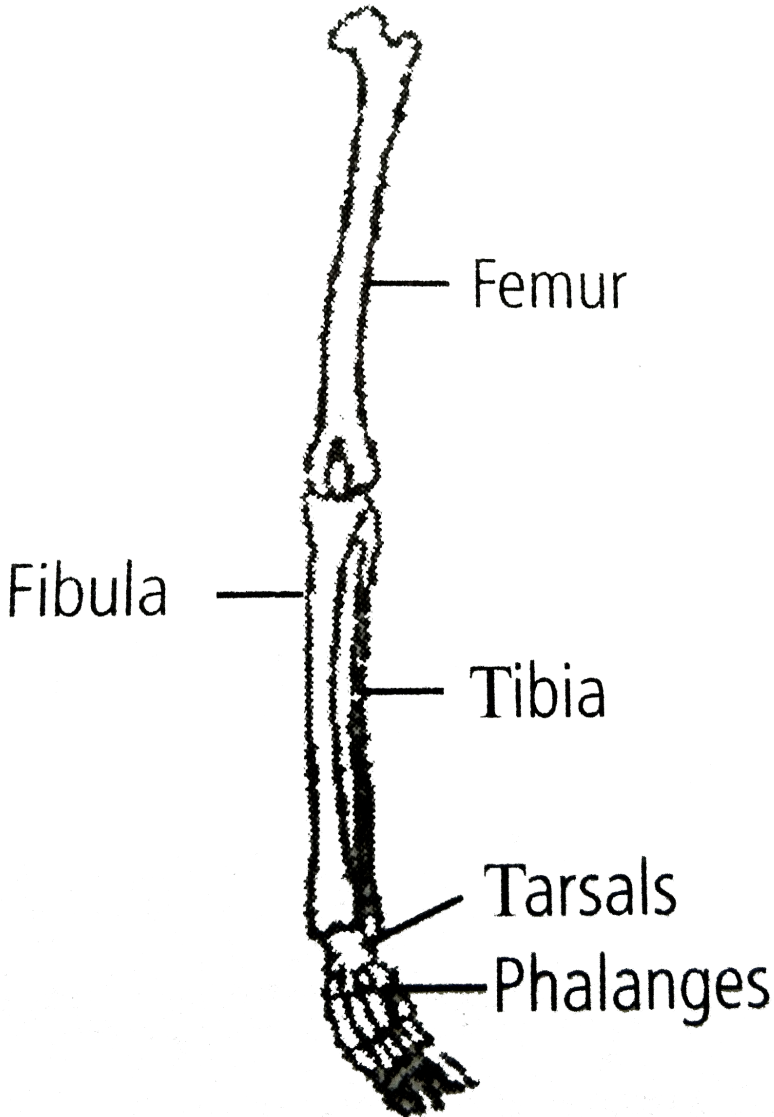
Answer: A



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67. Given diagram shows bone of the left human hindlimb as seen from front. It has certain mistakes in labelling.

Which of the following pairs contain both wrongly labelled bones ?



A. Tibia and tarsals

B. Femur and fibula

C. Fibula and phalanges

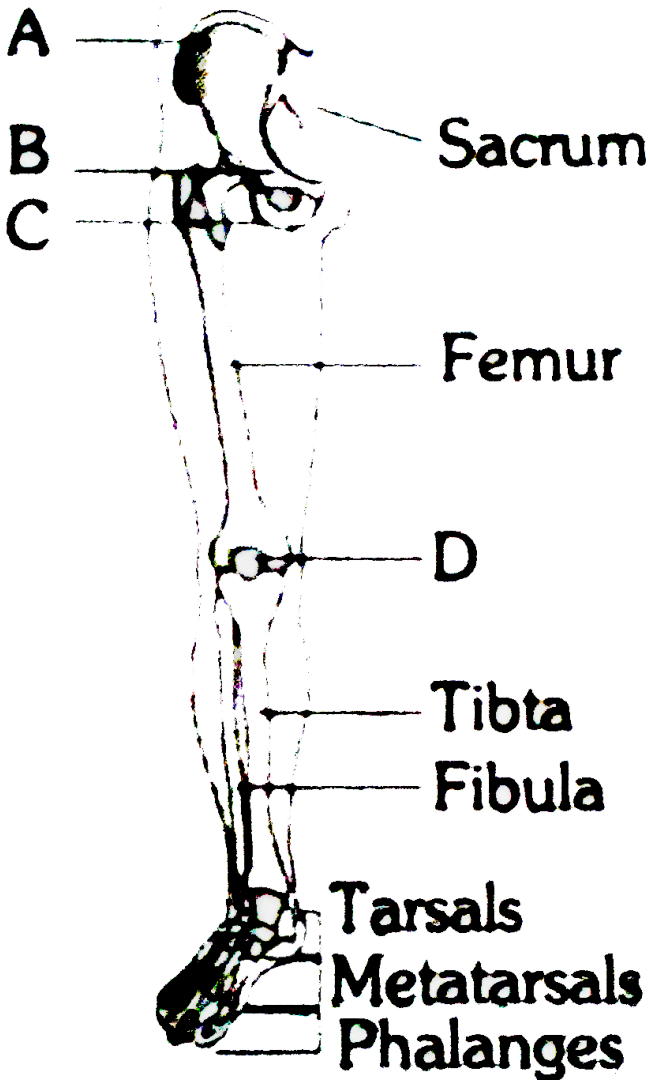
D. Tarsals and femur

Answer: C



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68. Consider the following diagram. Identify A, B, C and D



A. A-Ilium, B-Pubis, C-Ischium, D-Patella

B. A-Ilium, B-Pubis, C-Patella, D-Ischium

C. A-Ischium, B-Pubis, C-Ilium, D-Patella

D. A-Pubis, B-Ilium, C-Ischium, D-Patella

Answer: A



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69. Choose the correct option regarding a normal human

A. The skull is dicondylic

B. Metacarpals are five in numbers

C. Patella is a cup-shaped bone covering the knee dorsally

D. Scapula is a large triangular flat bone, situated on the ventral side of the thorax

A. A and D alone are wrong

B. A and B alone are wrong

C. B and D alone are wrong

D. C and D alone are wrong

Answer: D



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70. The pectoral and pelvic girdles and the bones of limb form

- A. Axial skeleton
- B. Appendicular skeleton
- C. Visceral skeleton
- D. Outer skeleton

Answer: B



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71. What will happen if a bone is kept in 10% KOH solution for 3 days

- A. Remain unchanged

B. Dissolved

C. Become soft and elastic

D. Break

Answer: A



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72. The canal seen in the bone of mammals are

A. Haversian canals only

B. Volkmann's canals only

C. Haversian and Volkmann's canals

D. Canal of Schlemm

Answer: C



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73. Number of bones in human body is

A. 260

B. 206

C. 306

D. 203

Answer: B



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74. The total number of bones in your right arm is

"" Or

Total number of bones in the hind limb of a man is

A. 30

B. 32

C. 35

D. 40

Answer: A



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75. The scapula is a large triangular 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: B



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76. Acromion process is characteristically found in the _____ of mammals.

- A. Pectoral girdle
- B. Pectoral girdle
- C. Skull
- D. Sternum

Answer: B



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77. The matrix of bone and cartilage can be distinguished by the presence of

- A. Haversian canal
- B. Lacuna
- C. Chromatophores

D. Adipose cells

Answer: A



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78. What is the difference between the bone of rabbit and that of frog

A. In the bone of rabbit haversian canal is found

B. Yellow marrow is found

C. Osteocytes are of different types

D. Bone of frog is spongy

Answer: A



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79. Acetabulum is present in

- A. Pelvic girdle of rabbit
- B. Pectoral girdle of rabbit
- C. Both (a) and (b)
- D. None of these

Answer: A

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80. Ends of long bones are covered with

- A. Cartilage gland
- B. Muscles
- C. Ligaments
- D. Blood cells

Answer: A

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81. Olecranon process is found in

- A. Proximal end of ulna
- B. Distal end of ulna
- C. Proximal end of tibia
- D. Proximal end humerus

Answer: A



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82. Which of the following is absent in the segment of cockroach's leg

- A. Fibula
- B. Coxa
- C. Tibia

D. Femur

Answer: A



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83. Three of the following pairs of the human skeletal parts are correctly matched with their respective inclusive skeletal category and one pair is not matched. Identify the non-matching pair

- | | Pairs of skeletal parts | Category |
|----|-----------------------------|-----------------------|
| A. | Humerus and ulna | Appendicular skeleton |
| B. | Malleus and stapes | Ear ossicles |
| C. | Sternum and Ribs | Axial skeleton |
| D. | Clavicle and Glenoid cavity | Pelvic girdle |

Answer: D



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84. Astragalus and calcaneum are present in

- A. Fore limb
- B. Hind limb
- C. Scapula
- D. Clavicle

Answer: B



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85. Deltoid ridge is found in which one of the following bones

- A. Radius
- B. Tibia
- C. Femur
- D. Humerus

Answer: D



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86. Pelvic girdle of rabbit consist of

" " Or

IN mammals, each half of pelvic girdle or obturator foramen in pelvic girdle is formed by

- A. Ilium, ischium and pubis
- B. Ilium, ischium and coracoid
- C. Coracoid, scapula and clavicle
- D. Ilium, coracoid and scapula

Answer: A



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87. Pectoral girdle constitute

A. Scapula and Clavicle

B. Radius and Ulna

C. Ilium and Ischium

D. Maxilla and mandible

Answer: A



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88. The sigmoid notch is present in

A. Femur

B. Tibio-fibula

C. Humerus

D. Ulna

Answer: D



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89. Presence of furcula is a characteristic feature of

- A. Frogs
- B. Reptiles
- C. Birds
- D. Mammals

Answer: C



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90. In children the bones are more flexible and brittle because their bones have

- A. Large quantity of salts and little organic substances
- B. Large quantity of organic substances and little salts
- C. Well developed Haversian system
- D. Large number of osteoblasts

Answer: B

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91. Ankle bones have 6 tarsals and arranged in three rows then 1st row have

- A. Astragalus and calcaneum
- B. Pterygoid and astragalus
- C. Pterygoid and calcaneum
- D. None of these

Answer: A

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92. Triceps muscle joins ulna with

- A. Radius
- B. Humerus
- C. Phallanges
- D. Suprascapula

Answer: B

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93. In mammals each half of pectoral girdle consists of

- A. Supra scapula
- B. Scapula
- C. Coracoid

D. All the above

Answer: D



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94. Innominate or hip bone is formed by the fusion of how many bones

A. 2

B. 3

C. 4

D. 5

Answer: B



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95. Haversian canals are found in

A. Spinal cord

B. Brain

C. Long bones

D. Sponge

Answer: C



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96. Phallangeal formula of hand of man is

A. 1, 2, 2, 2, 2

B. 2, 1, 1, 1, 1

C. 2, 3, 3, 3, 3

D. 2, 3, 3, 2, 2

Answer: C



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97. Structure responsible for formation of sigmoid notch is

- A. Olecranon process of humerus
- B. Olecranon process of femur
- C. Olecranon process of radius ulna
- D. Olecranon process of tibia fibula

Answer: C



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98. 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

Answer: B



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99. The gliding joints are important for gliding movements. One example of such a joint is between the

- A. Zygapophysis of adjacent vertebrae
- B. Humerus and the glenoid cavity
- C. Occipital condyle and odontoid process
- D. Femur and tibio-fibula

Answer: A



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100. An example of synovial joint is found between

- A. Two vertebrae
- B. Two skull bones
- C. Humerus and ulna
- D. Tail vertebrae

Answer: C



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101. The example of pivot joint is

- A. Hip joints
- B. Metacarpophalangeal joints
- C. Ankle joints
- D. Radioulnar joints

Answer: D



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102. Elbow joint is an example of

- A. Pivot joint
- B. Hinge joint
- C. Gliding joint
- D. Ball and socket joint

Answer: B



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103. Hinge joint is present between

- A. Humerus and pectoral girdle

B. Femur and acetabulum

C. Humerus and radio-ulna

D. Femur and pelvic girdle

Answer: C



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104. Match the following and choose the correct option

Types of synovial joints	Bones involved
Ball and socket	1. Carpals and metacarpal of thumb
Hinge	2. Atlas and axis
Pivot	3. Frontal and parietal
Saddle	4. Knee
	5. Humerus and pectoral girdle

A. A-5,B-4,C-2,D-1

B. A-1,B-3,C-4,D-5

C. A-5,B-4,C-3,D-1

D. A-1,B-2, C-5, D-4

Answer: A



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105. The joint between the lower jaw and the skull is

- A. Gliding
- B. Hinge
- C. Perfect joint
- D. Saddle joint

Answer: D



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106. Ball and socket joints can be seen in

- A. Wrist

B. Fingers

C. Neck

D. Shoulders

Answer: D



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107. The type of joint between the human skull bones is

A. Synarthrodial joint

B. Synovial joint

C. Cartilaginous joint

D. Fibrous joint

Answer: A



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108. Ends of long bones are covered with

- A. Calcified
- B. Hyaline
- C. Elastic
- D. Fibrous

Answer: B



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109. Which one of the following pairs of structures is correctly matched with their correct description

- | | Structures | Description |
|----|----------------------|--|
| A. | Tibia and fibula | Both form parts of knee joint |
| B. | Cartilage and cornea | No blood supply but do require oxygen for respiratory need |

Structures Description

C. Shoulder joint and Ball and socket type of joint
elbow joint

Structures Description

D. Premolars and molars 20 in all and 3- rooted

Answer: B

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110. When the head of humerus fits into glenoid cavity, joint is

A. Ball and socket joint

B. Hinge joint

C. Pivot joint

D. Saddle joint

Answer: A

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111. An all out sprint can not continue for more than 40 seconds because

- A. Run out of oxygen
- B. Accumulation of creatine
- C. Muscles collapse
- D. All of these

Answer: D



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112. Select the correct matching of the type of the joint with the example in human skeletal system

- | Type of joint | Example |
|------------------------|---------------------------------------|
| A. Hinge joint | — Between humerus and pectoral girdle |
| B. Gliding joint | — Between carpals |
| C. Cartilaginous joint | — Between frontal and parietal |

Type of joint

Example

- D. Pivot joint – Between third and fourth cervical vertebrae

Answer: B



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113. Which of the following joints would allow no movement

- A. Cartilaginous joint
- B. Synovial joint
- C. Ball and socket joint
- D. Fibrous joint

Answer: D



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114. The ankle, knee and elbow joints are

A. Synovial joints

B. Hinge joints

C. Pivot joints

D. Ellipsoid Joints

Answer: A



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115. Joint between femur and pelvic girdle is

" " Or

Joint between femur and acetabulum is known as

A. Pivotal

B. Ball and socket

C. Hinge

D. Saddle

Answer: B



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116. Achilles tendon is associated with

- A. Gluteus muscle
- B. Hamstring muscle
- C. Quadriceps muscle
- D. Gastrocnemius muscle

Answer: D



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117. Joint between femur and tibio-fibula is

- A. Hinge joint

B. Saddle joint

C. Pivot joint

D. Imperfect joint

Answer: A



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118. ___ acts as a shock absorber to cushion when tibia and femur came together

A. Ligament

B. Cartilage

C. Tendon

D. Disc

Answer: A



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119. Ends of long bones are covered with

- A. Muscles
- B. Tendons
- C. Ligaments
- D. Cartilage

Answer: C



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120. What is the name of joint between ribs and sternum ?

- A. Cartilagenous
- B. Angular joint
- C. Fibrous joint
- D. Gliding joint

Answer: A



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121. Sutural joints are found between

- A. Parietals of skull
- B. Humerus and radio-ulna
- C. Glenoid cavity and pectoral girdle
- D. Thumb and metatarsal

Answer: A



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122. Which of the following pairs is correctly matched ?

- A. Hinge joint - Between vertebrae

B. Gliding joint - Between zygapophyses of the successive vertebrae

C. Cartilaginous joint - Skull bones

D. Fibrous joint - Between phalanges

Answer: B



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123. Tendon is a structure which connects

A. A bone with another bone

B. A nerve with a muscle

C. A muscle with a bone

D. A muscle with a muscle

Answer: C



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124. Synovial joint is exemplified by

- A. Pivot joint
- B. Hinge joint
- C. Ball and socket joint
- D. All of these

Answer: D



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125. The pivot joint between atlas and axis is a type of

- A. Fibrous joint
- B. Cartilaginous joint
- C. Synovial joint
- D. Saddle joint

Answer: C



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126. Sarcolemma is a membrane found over in

- A. Nerve fibre
- B. Cardiac muscle
- C. Skeletal muscle fibre
- D. Heat

Answer: C



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127. Ensheathing of muscles is called

- A. Fascia

B. Peritoneum

C. Ligament

D. Tendon

Answer: A



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128. Standing on tip toe is an example of

A. Elevation

B. Flexion

C. Extension

D. Retraction

Answer: A



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129. Action potential in a muscle fibre is

- A. $-90mV$
- B. $-80mV$
- C. $45 - 50mV$
- D. $90mV$

Answer: C



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130. The generation of excitation-contraction coupling involves all the following events except

- A. Generation of end-plate potential
- B. Release of calcium from troponin
- C. Formation of cross-linkages between actin and myosin
- D. Hydrolysis of ATP to ADP

Answer: B

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131. See the figure of actin (thin) filaments, Identify A, B and C



A. A-Troponin, B-Tropomyosin, C-F-actin

B. A- Troponin, B- Tropomyosin, C- Myosin

C. A- Troponin, B-Myosin, C-F-Tropomyosin

D. A-Tropomyosin, B-Troponin, C-F-actin

Answer: A

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132. The contraction of muscle of shortest duration is seen in

- A. Heart
- B. Jaws
- C. Intestine
- D. Eyelids

Answer: D



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133. Gastrocnemius' is a muscle of

- A. Forelimbs
- B. Thigh
- C. Shank
- D. Abdomen of frog

Answer: C



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134. ATPase enzyme needed for muscle contraction is located in

" " Or

The contractile protein of skeletal muscle involving ATPase activity is

A. Myosin

B. Actin

C. Actinin

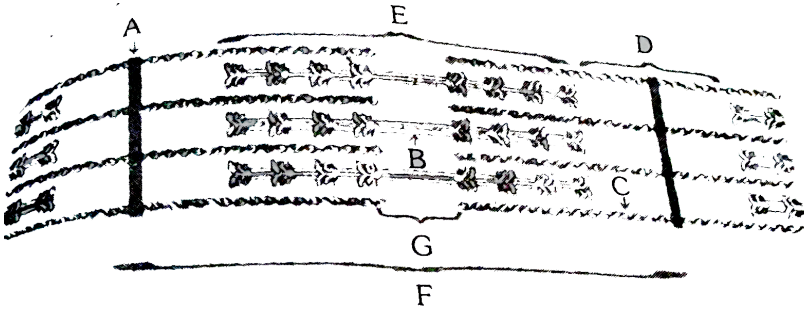
D. Troponin

Answer: A



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135. Select the letter from the figure that most appropriately corresponds to the structure



I. A-band " " II. I-band

III. Sarcomere " " IV. H-zone

V. Myosin

VI. Actin, Troponin, Tropomyosin

VII. Z-line

A. I-E,II-D-III-F-IV-A,V-B,VI-C,VII-G

B. I-E,II-D,III-F, IV-G, V-C, VI-A, VII-B

C. I-E, II-D, III-C, IV-G, V-B, VI-A, VII-F

D. I-E,II-D, III-F,IV-G, V-B, VI-C,VII-A

Answer: D



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136. What is sprain

- A. More pulling of tendon
- B. Less pulling of tendon
- C. More pulling of ligament
- D. Less pulling of ligament

Answer: C



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137. Muscles are red because of the presence of

- A. Myoglobin and mitochondria
- B. Haemoglobin and golgi bodies
- C. Globulin and mitochondria

D. Protein and lysosome

Answer: A



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138. The dark bands in a myofibril are due to accumulation of

- A. Only thick bands
- B. Only thin bands
- C. Both thick and thin bands
- D. None of the above

Answer: C



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139. The muscle fatigue occurs due to accumulation of

A. Pyruvic acid

B. ATP

C. Lactic acid

D. Eroman CO_2

Answer: C



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140. The muscular contraction in which the tension remains the same and the mechanical work is also done is called

A. Isotonic contraction

B. Tetanus

C. Isomeric contraction

D. Single muscle twitch

Answer: A

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141. In a relaxed fibril, H-zone, a lighter region of low density can be seen in the centre of

" " Or

The dark bands (Black bands) of a skeletal muscle are known as

- A. Anisotropic or A-band
- B. Isotropic or I-band
- C. Z-band
- D. Both in A and I-band

Answer: A

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142. The total number of muscles in the body of man is

A. 409

B. 439

C. 539

D. 639

Answer: D



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143. Major protein in the thick filament of skeletal muscle fibre is

A. Tropomyosin

B. Myosin

C. Actin

D. Troponin

Answer: B



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144. Select the correct statement with respect to disorders of muscles in humans

- A. Failure of neuromuscular transmission in myasthenia gravis can prevent normal swallowing
- B. Accumulation of urea and creatine in the joints cause their inflammation
- C. An overdose of vitamin D causes osteoporosis
- D. Rapid contractions of skeletal muscles causes muscle dystrophy

Answer: A



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145. Largest number of muscles will be found in

- A. Head

B. Neck

C. Back

D. Arm

Answer: C



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146. Muscles of the heart are

A. Voluntary, striated

B. Voluntary, smooth

C. Involuntary, striated

D. Involuntar, smooth

Answer: C



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147. Cori's cycle operates in

- A. Liver
- B. Liver and muscles
- C. Nerve
- D. Muscles

Answer: B



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148. Contraction of a muscle is caused by

- A. Myosin
- B. Actin
- C. ATP
- D. Actomyosin

Answer: D



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149. The biceps and triceps muscles are found in

- A. Fore arm
- B. Shank
- C. Shoulder
- D. Lower jaw

Answer: A



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150. For the given statement 'X' and 'Y', which option is the correct option

Statement 'X'- Red muscle are also called aerobic muscle

Statement 'Y' - Red muscle possesses large amount of mitochondria

which can utilize large amount of oxygen stored in them for ATP production

- A. Statement 'X' and 'Y' are correct and statement 'Y' is incorrect
explanation for 'X'
- B. Statement 'X' is correct and 'Y' is incorrect
- C. Statement 'X' is incorrect and 'Y' is correct
- D. Statement 'X' and 'Y' are correct and statement 'Y' is correct
explanation for 'X'

Answer: D

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151. Ciliary muscles are found in

- A. Diaphragm of a mammal
- B. Eyes of vertebrates

C. Heart of vertebrates

D. Stomach of frog

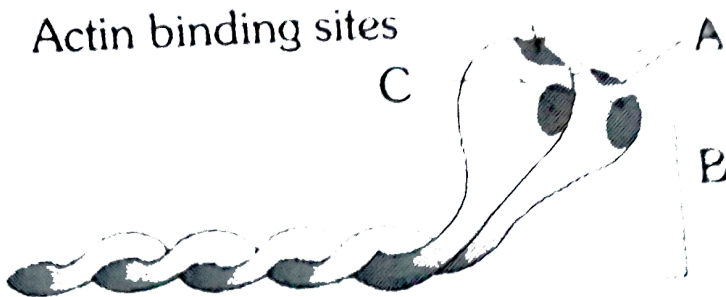
Answer: B



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152. The given figure is associated with myosin monomer (meromyosin).

Identify A to C



A. A-cross arm, B- head, C-ATP binding sites

B. A-head, B-cross arm, C-ATP binding sites

C. A-head, B-cross arm, C= Ca^{+2} binding sites

D. A-head, B-cross arm, C-GTP binding sites

Answer: B



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153. Electron microscopic studies of the sarcomeres have revealed that during muscle contraction

- A. The width of A-band remains constant
- B. The width of the H-zone becomes smaller
- C. The width of I-band increases
- D. The diameter of the fibre increases

Answer: A



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154. Latissius dorsi muscles are

- A. Muscles of fore arm
- B. Muscles of lower jaw
- C. Muscles of the chest
- D. Muscles of the shoulder

Answer: D

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155. During muscle contraction

- A. Chemical energy is changed into electrical energy
- B. Chemical energy is changed into mechanical energy
- C. Chemical energy is changed into physical energy
- D. Mechanical energy is changed into chemical energy

Answer: B

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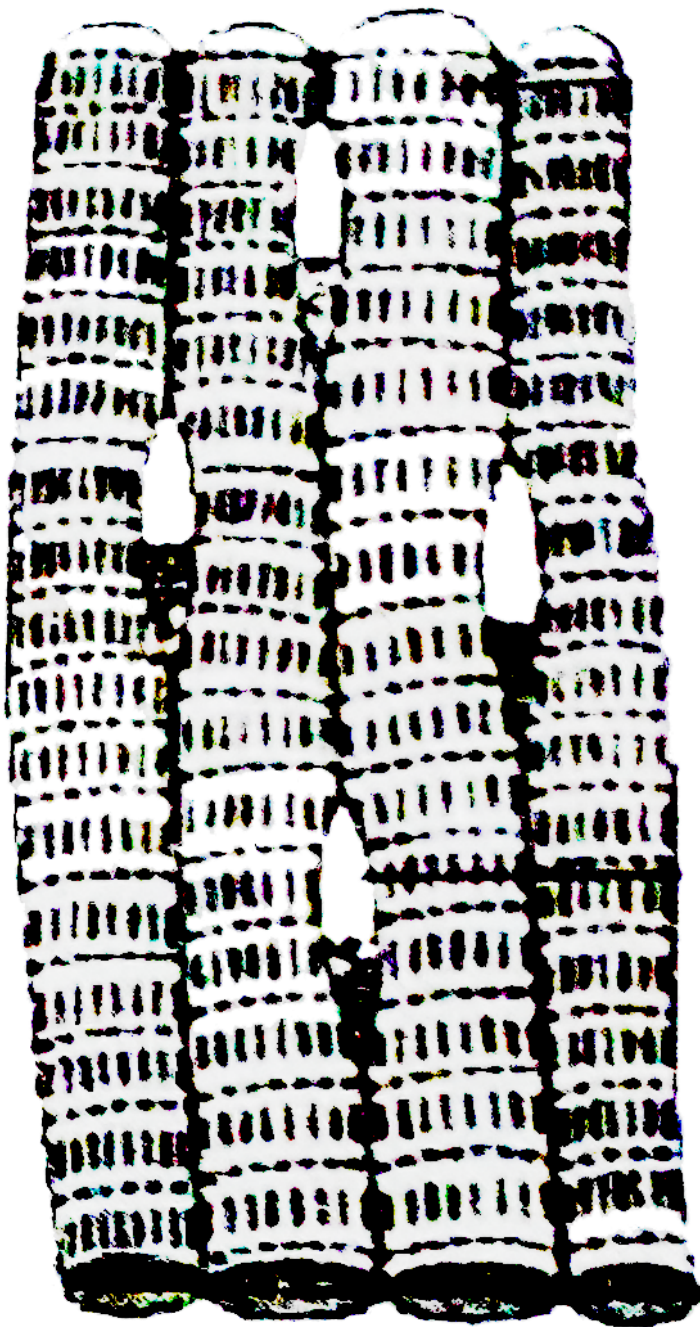
156. The H-zone in the skeletal muscle fibre is due to

- A. Extension of myosin filaments in the central portion of the A-band
- B. The absence of myofibrils in the central portion of A-band
- C. The central gap between myosin filaments in the A-band
- D. The central gap between actin filaments extending through myosin filaments in the A-band

Answer: D

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157. Identify the tissue shown in the diagram and match with its characteristics and its location



A. Smooth muscles, show branching, found in the walls of the heart

B. Cardiac muscles, unbranched muscles, found in the walls of the heart

C. Striated muscles, tapering at both-ends, attached with the bones of the ribs

D. Skeletal muscle, shows striations and closely attached with the bones of the limbs

Answer: D



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158. Calcium is important in skeletal muscle contraction because it

A. Binds to troponin to remove the masking of active sites on actin for myosin

B. Activates the myosin ATPase by binding to it

C. Detaches the myosin head from the actin filament

D. Prevents the formation of bonds between the myosin cross bridges
and the actin filament

Answer: A



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159. Match the following and mark the correct option

Column I

Column II

Fast muscle fibres *i.* Myoglobin

Slow muscle fibres *ii.* Lactic acid

Actin filament *iii.* Contractile unit

Sarcomere *iv.* I-band

A. A-I, B-ii, C-iv, D-iii

B. A-ii, B-I, C-iii, D-iv

C. A-ii, B-I, C-iv, D-iii

D. A-iii, B-ii, C-iv, D-i

Answer: C



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160. Ribs are attached to

- A. Scapula
- B. Sternum
- C. Clavicle
- D. Ilium

Answer: B



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161. ATPase of the type muscle is located in

- A. Actinin
- B. Troponin
- C. Myosin

D. Actin

Answer: B



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162. Intervertebral disc is found in the vertebral column of

A. Birds

B. Reptiles

C. Mammals

D. Amphibians

Answer: C



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163. Which one of the following is showing the correct sequential order of vertebrae in the vertebral column of human beings ?

- A. Cervical-lumbar-thoracic-sacral-coccygeal
- B. Cervical- thoracic - sacral - lumbar - coccygeal
- C. Cervical - sacral - thoracic - lumbar - coccygeal
- D. Cervical - thoracic - lumbar - sacral - coccygeal

Answer: D



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164. Which one of the following options is incorrect ?

- A. Hinge joint - between Humerus and pectoral girdle
- B. Pivot joint - between atlas, axis and occipital condyle
- C. Gliding joint - between the carpals
- D. Saddle joint - between carpal and metacarpals of thumb

Answer: A



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165. 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

Answer: B



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166. Macrophages and leucocytes exhibit

- A. Ciliary movement
- B. Flagellar movement
- C. Amoeboid movement
- D. Gliding movement

Answer: C



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

- A. Arthritis
- B. Osteoporosis
- C. Rickets
- D. Atherosclerosis

Answer: D

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168. Which one of the following statement is incorrect

- A. Heart muscles are legs are striated and voluntary
- B. The muscles of hands and legs are striated and voluntary
- C. The muscles located in the inner walls of alimentary canal are striated and involuntary
- D. Muscles located in the reproductive tracts are unstriated and involuntary

Answer: C

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169. Which one of the following statements is true?

- A. Head of humerus bone articulates with acetabulum of pectoral girdle
- B. Head of humerus bone articulates with glenoid cavity of pectoral girdle
- C. Head of humerus bone articulates with a cavity called acetabulum of pelvic girdle
- D. Head of humerus bone articulates with a glenoid cavity of pelvic girdle

Answer: B



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170. Typical all mammals have seven cervical vertebrae except in

- A. elephant
- B. man

C. kangaroo

D. sea cow

Answer: D



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171. The membrane areas between the cranial bones of the foetal skull are called

A. Areolas

B. Foramina

C. Sutures

D. Fontanelle

Answer: D



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

- A. Muscular dystrophy-age related shortening of muscles
- B. Osteoporosis-decreases in bone mass and higher chances of fractures with advancing age
- C. Myasthenia gravis-auto immune disorder which inhibits sliding of myosin filaments.
- D. Gout-inflamation of joints due to extra deposition of calcium

Answer: B



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173. Which of the following is not a function of the skeletal system

- A. storage of minerals
- B. Production of body heat

C. Locomotion

D. Production of erythrocytes

Answer: B



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174. The zygomatic process in mammals arises from

A. Premaxilla

B. Maxilla

C. Mandible

D. Squamosal

Answer: D



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175. In frog, the vertebra with an anterior convex surface is

- A. Atlas
- B. Urostyle
- C. 8th vertebra
- D. 9th vertebra

Answer: D



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176. Epiphyseal discs, which are present at the ends of long bones are responsible for

- A. Bone elongation
- B. growth of thickness of the bone
- C. Remodelling the shape of bone
- D. Formation of Haversian canal

Answer: A



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177. A greater trochanter is found in

- A. Femur
- B. Humerus
- C. Ulna
- D. Radius

Answer: A



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178. The Paget's disease is caused by

- A. Prolonged deficiency of vitamin D in adults

- B. Abnormal bone resorption by abnormal osteoclasts
- C. Excesss alkaline phosphatase
- D. Excess production and abnormal organization of collagen

Answer: B



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179. Bone is distinguished from the cartilage by the presence of

- A. Collagen
- B. Blood vessels
- C. Lymph vessels
- D. Haversian canals

Answer: D



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180. Which of the following is not found in birds

- A. Pectoral girdle
- B. Pelvic girdle
- C. Hind limb
- D. Fore limb

Answer: D



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181. Interphalangeal joints are also called as

- A. Fixed joints
- B. Hinge joints
- C. Movable joints
- D. Straight joints

Answer: B



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182. The immediate regeneration of ATP used up during muscle contraction is facilitated by

A. Glucose

B. Glycogen

C. Lactic acid

D. Creatine phosphate

Answer: D



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183. Smallest muscle in the human body

A. Sartorius

B. Spinal muscle

C. Stapes

D. Stapedius

Answer: D

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184. Quadriceps and Gastrocnemius muscle lies in

A. Hands

B. Legs

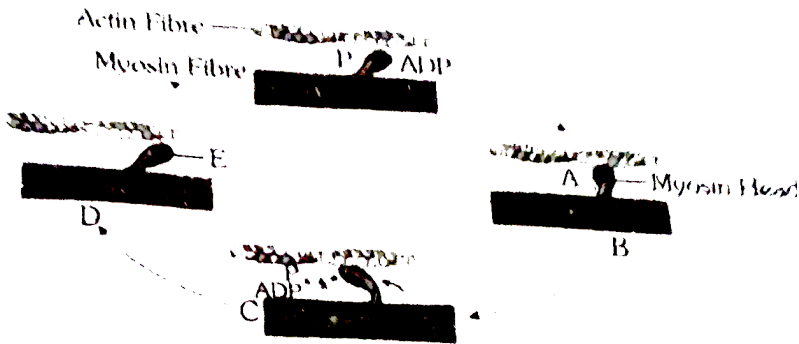
C. Shoulder

D. Wrist

Answer: B

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185. See the following figure describing muscle contraction.



Identify A, B, C, D and E

A. A- cross bridge, B -Cross bridge formation, C-Sliding/rotation, D-ADP,

E-Breaking of cross bridge

B. A- Cross bridge, B-Breaking of cross bridge formation , E-AMP

C. A- Cross bridge, B-cross bridge formation , C-Sliding/rotation, D-

Breaking of cross bridge, E-ATP

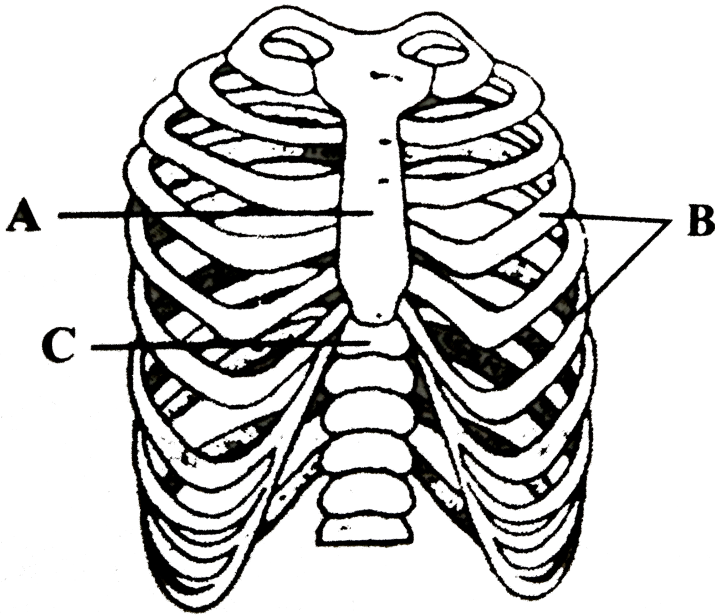
D. A- Cross bridge, B -Cross bridge formation, C-Breaking of cross

bridge, D-Sliding (rotation), E-ATP

Answer: C

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186. The figure given here is of rib cage. Identify the parts labelled as A, B and C and select the correct option .



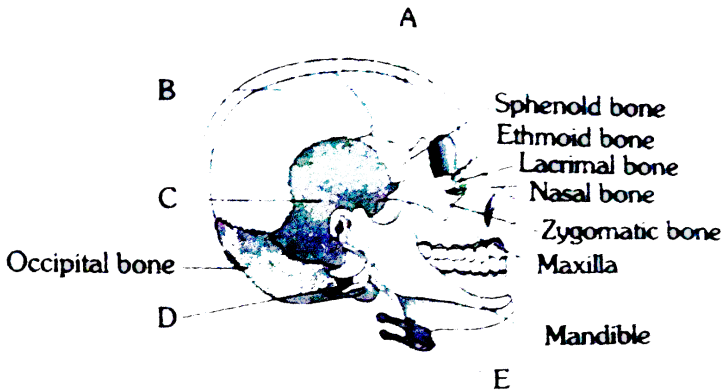
- A. Tarsal, ribs, vertebral column
- B. Scapula, ribs, vertebral column
- C. Sternum, ribs , vertebral column

D. Coccyx, ribs, vertebral column

Answer: C

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187. Study the diagram given below,



Parts labelled as A,B,C,D and E respectively represent

A. Parietal bone, Frontal bone, Temporal bone, Occipital condyle and Hyoid bone.

B. Frontal bone, Parietal bone, Temporal bone, Hyoid bone and Occipital condyle

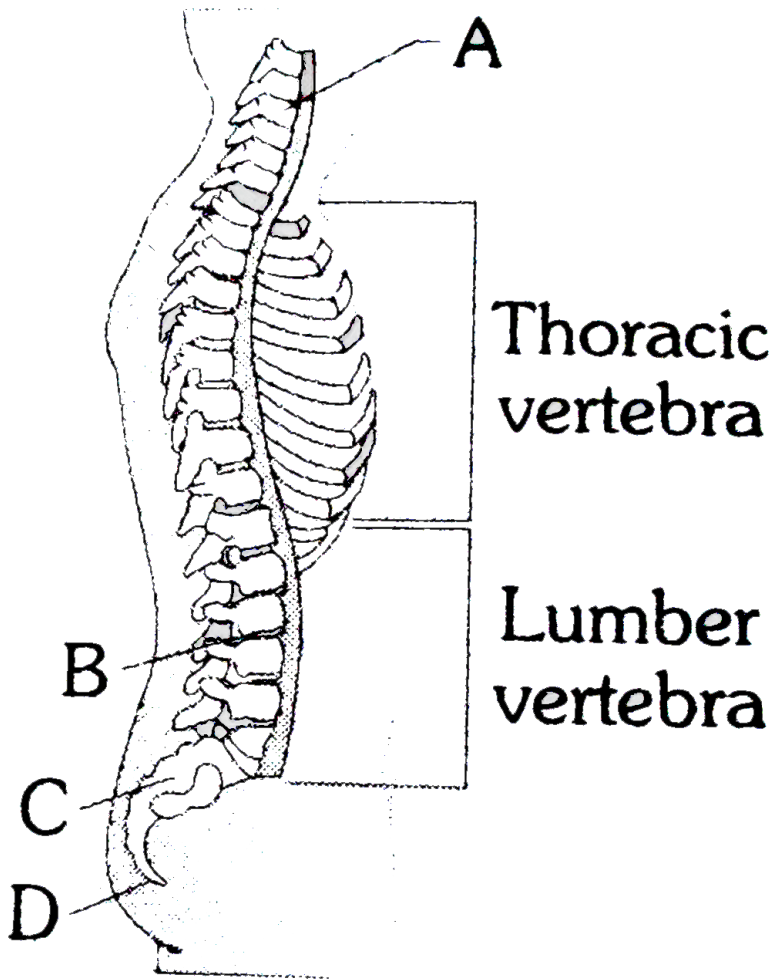
C. Frontal bone, temporal bone, Parietal bone, Occipital condyle and Hyoid bone

D. Frontal bone, Parietal bone, Temporal bone, Occipital condyle and Hyoid bone

Answer: D

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188. The given figure indicates vertebral column of human (right lateral view). Parts labelled as A,B,C and D respectively represent .

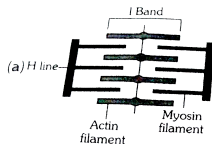


- A. Cervical vertebra, Intervertebral disc, Sacrum and Lumber vertebra
- B. Cervical vertebra, Intervertebral disc, Lumbar vertebra and Coccys
- C. Cervical vertebra, Intervertebral disc, Sacrum and Coccys
- D. Lumber vertebra, Intervertebral disc, Sacrum and Coccys

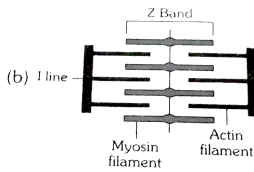
Answer: C

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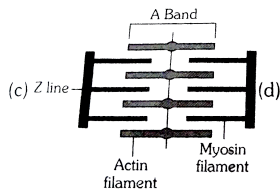
189. Which of the following sarcomeres is labelled correctly



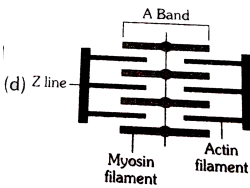
A.



B.



C.



D.

Answer: D



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190. Osteoporosis, an age related disease of skeletal system, may occur due to

- A. Accumulation of uric acid leading to inflammation of joints.
- B. Immune disorder affecting neuromuscular junction leading to fatigue
- C. High concentration of Ca^{++} and Na^{++}
- D. Decreased level of estrogen

Answer: D



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191. which of the following structures or regions is incorrectly paired with its function.

- A. Medulla oblongata: Controls respiration and cardiovascular reflex.
- B. Limbic system : consists of fibre tracts that interconnect different regions of brain, controls movement
- C. Hypothalamus : Production of releasing hormones and regulation of temperature, hunger and thirst
- D. Corpus callosum : band of fibres connecting left and right cerebral hemispheres

Answer: B



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192. Assertion : Ball and socket joints are the most mobile joints.

Reason: Synovial fluid is present here.

- A. If both the assertion and the reason are true and reason is a correct explanation of the assertion

B. If both the assertion 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

Answer: B

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193. 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 assertion 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

Answer: A



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194. Assertion: Triceps is said to be an extensor muscle for elbow joint.

Reason: Triceps relaxes during extension of forearm at the elbow joint.

- A. If both the assertion and the reason are true and reason is a correct explanation of the assertion
- B. If both the assertion 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

Answer: C



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195. Assertion : Muscle contraction force increases with rise in strength of stimulus.

Reason: This is due to increased contraction of individual muscle fibres with increases in stimulus strength.

- 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

Answer: C



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196. The smooth sustained contraction of a muscle due to fusion of many twitches is called

- A. Tendon
- B. Tetanus
- C. Twitch
- D. Rigor mortis

Answer: B



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197. Bucket-handle movement is seen in

- A. 1st rib
- B. 3rd rib to 5th rib
- C. 6th rib to 10th rib
- D. 11th and 12th rib

Answer: C



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198. The characteristics and an example of a symbol joint in humans is

Characterstics	Example
(a) Lymph filled between two bones, limited movement	Gliding joint
(b) Fluid cartilage between two bones, limited movements	Knee joint
(c) Fluid filled between two joints, provides cushion	Skull bones
(d) Fluid filled synovial cavity between two bones	Joint betwee



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199. Pick out the correct match

A. Sternum - 14

B. Pelvis - 3

C. Ribs-20

D. Face - 5

Answer: B



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200. The cranium is formed of 8 bones. They are

- A. 1 frontal 2 parietals, 1 occipital, 2 temporals, 1 sphenoid and 1 ethmoid
- B. 1 frontal, 1 parietal, 2 occipitals, 1 temporal, 2 sphenoids and 1 ethmoid
- C. 2 frontals, 1 parietal, 1 occipital, 2 temporals, 1 sphenoid and 1 ethmoid
- D. None of the above.

Answer: A



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201. The muscles associated with heart in insects are :

- A. Alary
- B. Radial
- C. Striped
- D. Pericardial

Answer: A



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202. Which of the following bones are cartilaginous

- A. Exoccipital and frontoparietal
- B. Exoccipital and sphenoid
- C. Exoccipital and parasphenoid
- D. Frontoparietal only

Answer: B



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203. Intercalated discs are found in

- A. Tendons
- B. Striped muscle
- C. Unstripped muscles
- D. Cardiac muscles

Answer: D



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204. Biceps and triceps surround

- A. Radius

B. Ulna

C. Humerus

D. Femus

Answer: C



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205. A cotyloid bone is found in

A. Pelvic girdel of frog

B. Pelvic giridle of rabbit

C. Pectoral girdle of rabbit

D. Skull of frog

Answer: B



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206. Fabellae bones are associated with

- A. angular joint
- B. Elbow joint
- C. Knee joint
- D. Neck joint

Answer: C



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207. Which of the following structure joins biceps muscles with radius-ulna

- A. Tendon
- B. small muscles
- C. Ligament
- D. None of the above.

Answer: A



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208. Sometimes the muscles do not relax and become stiff. This condition is known as Rigor Mortis which is due to fall of concentration of

A. Myosin

B. Relaxin

C. Actin

D. ATP

Answer: D



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