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## BIOLOGY

## BOOKS - AAKASH SERIES

## LOCOMOTION AND MOVEMENT

Exercise I Type Of Movement

1. Macrophages and leucocytes exhibit
A. ciliary movement

## B. flagellar movement

C. amoeboid movement
D. gliding movement.

## Answer: C

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## Exercise I Muscle

1. The following diagram shows a thin myofilament of striated muscle fibre. Choose
the option that correctly identifies a part of it along with its feature.
A. A - Tropomyosin, it is distributed at regular intervals and has three subunits
B. A - Troponin, a subunit of it masks the
active binding sites for myosin on the actin filaments
C. B-Troponin, two filaments of it run close to the 'F' actins throughout its length
D. C- 'G' actin, it is a polymer of ' $F$ ' actins

## Answer: B

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2. Identify the Incorrect match about muscle
fibres

| Red muscle | White muscle |
| :--- | :--- |
| 1) More myoglobin | Less myoglobin |
| 2) More <br> sareoplasmic <br> reticulum | Less <br> sarcoplasmic <br> reticulum |
| 3) More mitochondria | Fewer mitochondria |
| 4) More vascular | Less vascular |

3. Which of the following is true for the labelled parts in the figure below?

A. A - Thin filament - Bears cross bridges
B. B - $M$ line - Also called Krause's
membrane

## C. C.- Thick filament - Made up of

 tropomyosinD. D-H zone - I at the centre of $A$ band

## Answer: D

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4. When a neural signal reaching the neuromuscular junction releases acetylcholine, an action potential is generated first in
A. Sarcolemma
B. Sarcoplasmic reticulum
C. Sarcosomes
D. Sarcomeres

Answer: A

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5. Muscle fatigue is due to accumulation of
A. Myoglobin
B. Glucose
C. Lactic acid
D. Phosphocreatine

## Answer: C

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6. In a myofibril, the thick filaments are held together in the middle of A-band by a thin
fibrous membrane called
A. Z-line
B. K-line
C. M-line
D. H-line

Answer: C

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7. In a myofibril, each I band is bisected by
A. Z-line
B. K-line
C. M-line
D. H-line

Answer: A

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8. Which of the following has ATP binding site?
A. Light meromyosin
B. Troponin

## C. Heavy meromyosin

## D. Tropomyosin

## Answer: C

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## 9. Thin myofilaments are made up of

A. Actin, tropomyosin and meronyosin
B. Tubulin and dynein
C. Heavy meromyosin and light
meromyosin
D. Actin, troponin and tropomyosin

## Answer: D

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10. Which of the following is correct about the given figure?

A. The length of the thick and thin
filaments has changed
B. The length of anisotropic band remained
unchanged
C. The length of isotropic band has
increased
D. The length of the thin filaments has
decreased but the length of the thick
filaments has remained unchanged
11. The contractie element present in the myofibril of a striated muscle between two successive $Z$-lines is called
A. 1. Sarcosome
B. 2, Sarcoplasm
C. 3. Sarcomere
D. 4. Sarcoplasmic reticulum
12. Study the following diagram and identify the correct option.

A. $C$ is made up of actin whereas $A$ and $B$ are made up of tropomyosin
B. B and C are made up of light
C. C has binding sites for ATP and actin
D. A and B are made up of heavy meromyosin

## Answer: D

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13. A skeletal muscle fibre is
A. 1. Binucleate
B. 2. Uninucleate

## C. 3. Multinucleate

D. 4. Enucleate

## Answer: C

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14. The tails of myosin are made up of
A. Light meromyosin

B. Globular actin

C. Heavy meromyosin
D. Filamentous actin

## Answer: A

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## 15. White muscle fibres contain more

A. Sarcoplasmic reticulum
B. Myoglobin
C. Mitochondria
D. Blood supply

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16. ions that play a role in muscle contraction are
A. Sodiuin ions
B. Chloride ions
C. Potassium ions
D. Calcium ions

## Answer: D

## D Watch Video Solution

17. Thin myofilaments are made up of
A. Actin, tropomyosin and meromyosin
B. Tubulin and dynein
C. Heavy meromyosin and light
meromyosin
D. Actin, troponin and tropomyosin

## Answer: C

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18. Skeletal muscle appears striated due to the presence of two characteristic proteins in alternating dark and light bands. Which of the
following is a correct match of the protein
with its light refractive property and colour?

|  | Provisin | Colour | Property |
| :---: | :---: | :---: | :---: |
| 1) | Actin | Light | Anisotropic |
| 2) | Myosin | Dark | Anisotropic |
| 3) | Actin | Dark | Isotropic |
| 4) | Myosin | Dark | Isotropic |

19. During muscle contraction
A. Thin myofilaments shorten
B. Thick myofilaments shorten
C. A band reduces in width
D. H zone reduces in width

## Answer: D

## 20. Identify the correct statement

A. ' $F$ ' actin a polymer of ' $G$ ' actin molecules
B. Heavy meromyosin forms tail
C. Light meromyosin forms head
D. Each light meromyosin has two bindings
sites

Answer: A

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21. Which of the following is true with regard to red muscle fibres?
A. 1. Short term contractions
B. 2. High intensity contractions
C.3. More amount of sarcoplasmic reticulum

D. 4. More amount of oxygen storage

## Answer: D

# 22. Which of the following is a motor protein? 

A. 1. 'F' actin
B. 2. 'G' actin
C. 3. Myosin
D. 4. Tropomyosin

Answer: C
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## 23. During muscle contraction

A. 1)Mechanical energy is changed into
chemical energy
B. 2)Chemical energy is changed into
mechanical energy
C. 3)Chemical energy is changed into
electrical energy
D. 4)Physical energy is changed into
chemical energy

## Answer: B

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24. Which of the following sarcomeres is

## labeled correctly?




## Answer: A

## D Watch Video Solution

## 25. Identify the correct combination from the

## following

|  | Muscle | Characters | Location |
| :---: | :---: | :---: | :---: |
| 1) | Skeletal muscle | i) Multinucleate <br> ii) No sarcomeres | Diaphragm |
| 2) | Smooth muscle | i) Involuntary <br> ii) Fusiform cell | Trachea |
| 3) | Iris muscle | i) Mesodermal <br> ii) Involuntary | Eye |
| 4) | Cardiac muscle | i)Intercalated discs <br> ii) ANS | Epicardium |

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26. Which one of the following options shows
the next stage of muscle contraction after the

## stage given in question ?


 スTP
C.

D.


Answer: D
27. Identify the correct combination from the following
A. Amoeboid movement - streaming of protoplasm - Euglena
B. Flagellar movement - undulations

Spermatozoa
C. Ciliary movement - Metachronous
rhythmAcineta
D. Muscular movement - Catraction of

## myonemes - perinteis

Answer: B

(D)
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28. Identify the correct match.

|  | Area of sarcomere | type of myofilaments |
| :--- | :--- | :--- |
| 1) | H zone | Both actin and myosin |
| 2) | I band | only myosin |
| 3) | A band | only actin |
| 4) | A-I junction | both actin and myosin |

29. Identify the incorrect match.

|  | Protein | Related to |
| :--- | :--- | :--- |
| 1) | Troponin | I band |
| 2) | Tropomyosin | A band |
| 3) | Myosin | Thick filamen: |
| 4$)$ | F-actin | Thin filament |

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30. Identify the correct combination
A. HMM - Actini - Head and tail
B. LMM - Myosin - neck and tail

## C. Cross arm - Myosin - head and neck

D. Short arm - Actin - neck

## Answer: C

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## 31. Identify the correct match.

|  | Muscle Contraction | Muscle Kelaxation |
| :--- | :--- | :--- |
| 1) | Troponin tropomyosin <br> complex moves awey <br> from the active site | imponin tropomyosin <br> complex masks the <br> active site |
| 2) | Z membranes move <br> away from M-line | Z-membranes move <br> towards M-line |
| 3) | Recovery stroke <br> occurs | Power stroke occurg |
| 4) | Calcium ions re-enter <br> into cisternae | Calcium ions move <br> into sarcoplasm <br> from cisternae |

32. Identify the incorrect match.

|  | Structure | Character | Function |
| :--- | :--- | :--- | :--- |
| 1) | M-line | Thin fibrous <br> membrane | Holds the thick <br> filaments togethe |
| 2) | Z-line | Elastic fibre | bisects I band |
| 3) | Sarcoplasmic <br> reticulum | Consists of <br> terminal <br> cisternae | Store house of <br> calcium ions |
| 4) | Myoblasts | Multinucleate | Form skeletal <br> muscle fibre |

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33. Identify the correct match about events related to muscle contraction

|  | Part of sarcomere | Change |
| :--- | :--- | :--- |
| 1) | Actin filament | Shortened |
| 2) | Myosin filament | lengthened |
| 3) | I band | no change |
| 4) | H-zone | become narrow |

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## 34. Identify the correct match about one

 myofilament (Thick/thin).|  | Structure | Number of units |
| :--- | :--- | :--- |
| 1) | F-actin | Many filaments |
| 2) | Tropomyosin | Two filaments |
| 3) | Troponin | Four subunits |
| 4) | Myosin | One head, two tails |

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35. Which of the following is an ATPase enzyme?
A. 1. Troponin
B. 2. Light meromyosin
C. 3. Tropomyosin
D. 4. Heavy meromyosin'

## Answer: D

## 36. What is sarcomere ?

A. Part between two H-lines
B. Part between two A-lines
C. Part between two I-bands
D. Part between two Z-lines

Answer: D
37. Match the following and mark the correct

## option

Column I
A. Fast muscle fibres
B. Slow muscle fibres
C. Actin filament
D. Sarcomere (iv) I-band
A. A-(i), B-(ii), C-(iv), D-(ii)
B. $A$-(ii), $B-(i), C-(i i i), D-(i v)$
C. A-(ii), B-(i), C-(iv), D-(iii)
D. A-iii), $B-(i i), C-(i v), D-(i)$

## Answer: C

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38. ATPase of the muscle is located in

A. actinin

B. troponin
C. myosin

D. actin

Answer: C
39. Which one of the following statement is incorrect?
A. Heart muscles are striated and involuntary.
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

## D Watch Video Solution

40. Muscles with characteristic striations and in- voluntary are
A. muscles in the wall of alimentary canal
B. muscles of the heart

# C. muscles assisting locomotion 

D. muscles of the eyelids.

Answer: B
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## Exercise I Skeletal System

1. The total number of bones in the human
skull is
A. 22
B. 28
C. 14
D. 29

Answer: D

- Watch Video Solution

2. The number of pairs of true ribs is
A. 9 pairs
B. 7 pairs
C. 12 pairs
D. 2 pairs

Answer: B

- Watch Video Solution

3. The bone that bears the acromion process is
A. Clavicle
B. Scapula

## C. Humerus

D. Radius

## Answer: B

## - Watch Video Solution

4. The total number of bones in the human
skull is
A. 14
B. 22
C. 8
D. 29

Answer: A

## D Watch Video Solution

5. Largest triangular bone of the pectoral girdle
A. Clavicle
B. Coxal
C. Scapula
D. Ischium

## Answer: C

## D Watch Video Solution

6. The number of occipital condyles is man is
A. 2
B. 1
C. 3
D. 4

## Answer: A

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## 7. The bone with the glenoid cavity is

A. 1)Coccyx
B. 2)Sternum
C. 3)Scapula
D. 4)Skull

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8. The number of carpals and tarsals in the human skeleton are respectively
A. 1)14 and 16
B. 2) 16 and 14
C. 3)14 and 14
D. 4)16 and 16

Answer: B

## D Watch Video Solution

9. The total number of bones that form the
thoracic (rib) cage is
A. 36
B. 37
C. 25
D. 24

Answer: B

## D Watch Video Solution

## 10. Collar bone' is

A. Clavicle
B. Humerus
C. Scapula
D. Coracoid
11. Which of the following represents the
fusion of ilium, ischium and pubis?
A. Sacrum
B. Coxal bone
C. Coccyx
D. Collar bone

Answer: B

# 12. Study the following diagram of human skull 

and choose the option that correctly identifies
two of the labels.

A. C - Sphenoid, E-Temporal
B. B - Parietal, D-Sphenoid

# C. A - Frontal, F. Occipital 

D. E-Occipital, F - Temporal

## Answer: A

## D Watch Video Solution

13. The number of vertebrae present in cervical, theoracic, lumbar, sacral and coccyx regions are respectively
A. 7,12,6,1,1
B. 8,12,5,1,1

## C. 7,12,5,1,1

D. $7,14,5,1,1$

## Answer: C

## D Watch Video Solution

14. The given diagram shows the front view of bones of the human lower limb. Which two
bones are wrongly labelled in it?

A. Femur and patella

## C. Patella and tibia

## D. Fibula and femur

## Answer: C

## D Watch Video Solution

15. Find the wrong match.
A. Humerus - upper arm
B. Metacarpals - palm
C. Radius and ulna - fore arm
D. Tarsals - wrist

## Answer: D

## D Watch Video Solution

16. The number of vertebrochondral ribs in
human is
A. $11^{\text {th }}$ and $12^{\text {th }}$ pairs
B. $8^{t h}, 9^{t h}$ and $10^{t h}$ pairs
C. Last five pairs

## D. Last three pairs

## Answer: B

## D Watch Video Solution

17. Choose the wrong match.
A. Cervical - 7 vertebrae
B. Lumbar - 5 vertebrae
C. Thoracic - 12 vertebrae
D. Sacrum-4 fused vertebrae

## Answer: D

## D Watch Video Solution

18. Find the correct option regarding the number of bones present in given part of axial skeleton
A. 55
B. 29
C. 80
D. 126

Answer: C

## D Watch Video Solution

19. which of the following is a part of the pectoral girdle?
A. sternum
B. acetabulum
C. glenoid cavity
D. ilium

## Answer: C

## - Watch Video Solution

20. The number of floating ribs, in the human body, is
A. 3 pairs
B. 2 pairs
C. 6 pairs
D. 5 pairs

Answer: B

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21. What are the total number of bones in right lower limb of a man
A. 24
B. 30
C. 14
D. 21

## D Watch Video Solution

22. Coxal bone is the component of
A. pelvic girdle
B. elbow joint
C. pectoral girdle
D. knee joint
23. The bone not associated with the rib case/cage is
A. 1)Thoracic vertebrae
B. 2)Sternum
C. 3)Lumbar vertebrae
D. 4)Ribs

Answer: C
24. Which one is a part of appendicular skeleton?
A. Odontoid process
B. palatine process
C. Occipital condyle
D. Patella

Answer: D

- Watch Video Solution

25. Number of bones in cranium, face, hyoid and middle ear are respectively
A. 14, 8, 1 and 3
B. $8,14,1$ and 3
C. $3,8,14$ and 1 .
D. $14,8,3$ and 1

Answer: B
26. The coxal bone of the pelvic girdle is formed by the fusion of
A. Ilium, ischium and pubis
B. Scapula and clavicle
C. Ilium and scapula
D. Iliun, scapula and ischium

Answer: A
(D) Watch Video Solution
27. Examine the figure of pectoral girdle and
forelimb and identify the parts labelled as A, B,

## $C$ and $D$.



1) Clavicle Humerus Radius
2) Scapula Femur Ulna Tarsals
3) Scapula Femur Ulna Tarsals
Carpals
4) Clavicle Femur Radius Carpals
5) Scapula Hunerus Ulna
D Watch Video Solution
28. Identify the parts labelled as A to E in the given figure of a vertebral column and select the correct option


## D Watch Video Solution

29. Examine the given diagrammatic view of
human skull given below and identify the skull bones labelled from A-D.


|  | A | B | C | D |
| :--- | :--- | :--- | :--- | :--- |
| 1) | Frontal | Temporal | Maxilla | Mandible |
| 2) | Occipital | Frontal | Mandible | Maxilla |
| 3) | Parietal | Temporal | Maxilla | Mandible |
| 4) | Temporal | Parietal | Mandible | Maxilla |

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30. Complete the following paragraph by selecting the correct option

Pelvic girdle consists of two coxal bones. Each
coxal bone is formed by the fusion of three
bones (i),(ii) and (ii) . At the point of fusion of
the above bones is a cavity called (iv) to which
the thigh bone articultes. The two halves of the pelvic girdle meet ventrally to form the pubic symphysis containing (v) cartilage.

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31. Identify the incorrect match
A. Facial bones - 14
B. Cranial bones-8
C. Ear ossicle- 6.
D. Occipital condyles - 4

Answer: D

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32. Identify the correct match about adult vertebral column
A. Thoracic vertebrae - 7
B. Lumbar vertebrae - 12
C. Sacral vertebrae-1
D. Coccygeal vertebrae-4

Answer: C
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33. Identify the bones which are related to axial skeleton
A. 1)Vomer, Scapula, Hyoid, Tarsal
B. 2)Patella, Hip bone, Scapula, Tibia
C. 3)Malleus, Coccyx, Sternum, Lacrimal
D. 4)Fibula, Sacrum, Clavicle, Zygomatic bone

Answer: C

## D Watch Video Solution

34. Observe the following bones from A-D
(belongs to I-III), identify the odd one in that given combination

|  | A | B | C | D |
| :---: | ---: | ---: | :---: | :---: |
| I) | Tibia | Tarsals | Carpals | Phalanges |
| II) | Scapula | Clavicle | Glenoid cavity | Ilium |
| III) | Coccyx | Coxal | Sacrum | Atlas |

A. I-C, II-D, III-B
B. I-B, II-A, III-C
C. I-B, II-D, III-A
D. I-D, II-B, III-C

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## 35. Connection of bone to bone is by

A. Cartilage
B. tendon
C. muscle
D. ligament
A. bony matter
B. white fibrous cartilage
C. hyaline cartilage
D. areolar tissue

## Answer: C

# 37. Ribs are attached to 

A. scapula
B. sternum
C. clavicle
D. ilium

Answer: B
38. Intervertebral disc is found in the vertebral

## column of

A. birds
B. reptiles
C. mammals
D. amphibians

Answer: C

D Watch Video Solution
39. Which one of the following is showing the correct sequential 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 - Jumbar - sacral - 

coccygeal

## Answer: D

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40. 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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41. An acromian process is characteristically

## found in the

A. Pelvic girdle of mammals
B. Pectoral girdle of mammals
C. Skull of frog
D. Sperm of mammals

Answer: B
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1. Type of joint present between carpel and metacarpal of thumb is
A. Condyloid joint
B. Saddle joint
C. Gliding joint
D. Pivot joint

Answer: B

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2. The type of joint between the human skull bones is called
A. cartilaginous joint
B. hinge joint
C. fibrous joint
D. synovial joint

## Answer: C

3. The pivot joint between atlas and axis is a type of
A. gliding joint
B. hinge joint
C. pivot joint
D. saddle joint

Answer: C
(D) Watch Video Solution
4. What is the name of joint between ribs and sternum ?
A. Cartilaginous joint
B. Angular joint
C. Gliding joint
D. Fibrous joint

Answer: A

D Watch Video Solution
5. Which of the following pairs is correctly matched?
A. 1)Hinge joint - between vertebrae
B. 2)Gliding joint - between zygapophyses
of the successive vertebrae
C. 3)Cartilaginous joint-skull bones
D. 4)Fibrous joint - between phalanges

Answer: B
6. What will happen if ligaments are torn?
A. Bones will move freely at joint \& no pain
B. Bone will be less movable at joint \& painful
C. Bone will become unfixed
D. Bone will become fixed

## Answer: B

7. What is the type of movable joint present between the atlas and axis?
A. Pivot
B. Saddle
C. Hinge
D. Gliding

Answer: A

D Watch Video Solution
8. Which one of the following options is incorrect?
A. Hinge joint - between humerus and pectoral girdle
B. Pivot joint- between atlas and axis
C. Gliding joint - between the carpals
D. Saddle joint - between carpel and metacarpals of thumb

Answer: A

# 9. Knee joint and elbow joints are examples of 

A. saddle joint

B. ball and socket joint
C. pivot joint
D. hinge joint.

## Answer: D

# 10. Match the followings and mark the correct 

## option.

## Column I

A. Sternum
B. Glenoid cavity
C. Freely movable joint
D. Cartilaginous joint

Column II
(i) Synovial fluid
(ii) Vertebrae
(iii) Pectoral girdle
(iv) Flat bones

$$
\begin{aligned}
& \text { A. } A-(i i) . B-(i), C-(i i i), D-(i v) \\
& \text { B. } A-(i v), B-(i i i), C-(I) \\
& \text { C. } A-(i i), B-(i), C-(i v), D-(i i i)
\end{aligned}
$$

D.

$$
A-(i i i)-B-(i), C-(i i), D-(i v)
$$

## Answer: B

## D Watch Video Solution

## Exercise I Disorders Of Muscular And Skeletal

Systems

1. Which of the following is an autoimmune disorder leading to paralysis of skeletal muscle?
A. Myasthenia gravis
B. Myotonic dystrophy
C. Tetany
D. Muscular dystrophy

## Answer: A

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2. Which of the following is a progressive degeneration of skeletal muscle that occurs mostly due to genetic disorder?
A. Muscular dystrophy

B. Tetany

C. Myasthenia gravis
D. Gout

Answer: A

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3. Gout disease is due to the accumulation of
A. Cholesterol
B. Uric acid
C. Lactic acid
D. Urea

Answer: B

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4. Which one of the following is not a disorder of bone?
A. Arthritis
B. Osteoporosis
C. Rickets
D. Atherosclerosis

## Answer: D

## D Watch Video Solution

## Exercise li Muscle

1. In the region of A-band of a myofibril of a skeletal muscle where thick and thin filaments
overlap, each thin filament is surrounded by
A. Three thin filaments
B. Five thin filaments
C. Two thin filaments
D. Six thin filaments

## Answer: D

2. Correct order of stages of muscle contraction is

## A. Stimuli $\rightarrow$ Neurotransmitter secretion

$\rightarrow$ Release of calcium $\rightarrow$ Cross-
bridges formation - Excitation of T-
system $\rightarrow$ Sliding of actin filaments
B. Stimuli $\rightarrow$ Neurotransmitter secretion
$\rightarrow$ Excitation of T-system Release of
$\mathrm{Ca}^{2+} \rightarrow$ - Cross-bridges formation
$\rightarrow$ Sliding of actin filaments $\rightarrow H^{+}$
band diminishes

## C. Stimuli $\rightarrow$ Excitation of T-system $\rightarrow$

Neurotransmitter secretion $\rightarrow$ Cross
bridges formation $\rightarrow$ Sliding of actin
filaments $\rightarrow$ ' $H^{+}$band diminishes
D. Stimuli $\rightarrow$ Neurotransmitter secretion
$\rightarrow$ Cross-bridges formation $\quad \rightarrow$

Excitation of T-system $\rightarrow$ Sliding of actin filaments.

Answer: B

## D Watch Video Solution

3. The first source of energy that is used to
reconstitute the ATP in a contracting skeletal
muscle is
A. Glycogen
B. Phosphocreatine
C. Lactic acid
D. Acetyl CoA

Answer: B

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4. Find the correct statement with regard to
the arrangement of myosin molecules in a
sarcomere
A. All the tails face towards ' M ' line
$B$. All the heads face towards ' $M$ ' line
$C$. Half of the heads towards one ' $M$ ' line

## D. Half of the heads towards one 'Z' line

## and other half towards ' M ' line

## Answer: A

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## 5. Cori's cycle involves

A. Gluconeogenesis in the muscle

B. Deamination in the liver

C. Gluconeogenesis in the liver
D. Urea synthesis in the liver

## Answer: C

## D Watch Video Solution

6. In hurdle race, what is major source of energy to leg muscle
A. Lactate
B. Oxidative metabolism
C. Pyruvate
D. Anaerobic respiration

## Answer: B

## D Watch Video Solution

## 7. Identify the incorrect combination.

## Protein sub unit Function

1) $T_{n} I$
2) $T_{n} C$
3) $\mathrm{T}_{\mathrm{n}} \mathrm{T}$
4) $T_{a} I$
initiate factor
calcium ions bind to it
tropomyosin binds to it
Inhibitory factor

D Watch Video Solution
8. Identify the incorrect combination from the following
A. Sarcomere - Part of myofibril between
two Dobie's lines
B. Motor unit - Set of skeletal muscle fibres
and innervated by the afferent neuron
C. Triad system- T tubule and two on
cisternae either side
D. Motor endplate - The depression of
sarcolemma opposite the synaptic end

## bulbs

## Answer: B

## D Watch Video Solution

## 9. Identify the correct match

A. Motor protein -mask and unmask the active site

B. Regulatory protein- Convert chemical

energy into mechanical energy
C. Power stroke - Myosin head pulls the actin filaments towards H-zone
D. Recovery stroke - Movement of actomyosin towards M-line

## Answer: C

## D Watch Video Solution

10. Identify the incorrect match about Cori cycle.
1) initiated by lactic acid initiated by glucose
2) lactate is converted pyruvate is converted into pyruvate
into lactate
3) 2 ATP released

6 ATP consumed
4) releases glucose into the blood
releases lactate into
the blood

## D Watch Video Solution

11. If the stimulus applied to a skeletal muscle
fibre is just less than threshold stimulus, it will
A. Not contract at all
B. Contract with lesser force
C. Contract with greater force

## D. Contract with the same force

## Answer: A

## D Watch Video Solution

12. The longest muscle in the human body is
A. gluteus maximus
B. stapedial muscle
C. sartorius muscle
D. gastrocnemius muscle

## Answer: C

## D Watch Video Solution

13. Which of the following is true about muscle physiology?
A. A muscle fibres obey all-or-none law but
not a muscle
B. A muscle obeys all-or-none law but not a
muscle fibre

# C. A muscle as well as muscle fibres obey all 

or-none law
D. Neither muscles nor muscle fibres obey

## all or-none law

## Answer: A

D Watch Video Solution
14. The resting tension in a muscle is termed
A. 1)muscle twitch

## B. 2)muscle tremor

C. 3) muscle tone
D. 4) muscle fatigue

## Answer: C

## D Watch Video Solution

15. Holding a book steady using an outstretched arm is an example for
A. concentric isotonic muscle contraction
B. isometric muscle contraction
C. eccentric isotonic muscle contraction
D. failure of muscle contraction

Answer: B

## D Watch Video Solution

16. The brief contraction of all the muscle
fibres in a motor unit in response to a single action potential in its motor neuron is called
A. muscle tone
B. treppe
C. rigor mortis
D. muscle twitch

## Answer: D

D Watch Video Solution
17. We move our hands while walking for
A. Faster movement
B. Balancing
C. Increasing blood circulation
D. Relieving tension

Answer: B

D Watch Video Solution
18. The muscle which moves a limb away from
the median axis is called
A. 1)Supinator

B. 2)Pronator

## C. 3)Abductor

D. 4)Adductor

## Answer: C

## - Watch Video Solution

19. What kind of muscle is Latissimus dorsi?
A. trunk muscle
B. shoulder muscle

## C. a leg muscle

D. eye muscle

Answer: A

## - Watch Video Solution

20. Achilles tendom is associated with
A. gluteus muscle
B. hamstring muscle
C. quadriceps muscle

## D. gastrocnemius muscle

## Answer: D

## D Watch Video Solution

21. When a muscle bends one part upon the other, it is called
A. 1)abductor
B. 2)adduction
C. 3)extensor
D. 4)flexor

## Answer: D

## D Watch Video Solution

## 22. Accumulation of lactic acid in muscles

A. Lowers $P^{H}$
B. Increase pH
C. Is good for health
D. Removes fatigue

Answer: A

## D Watch Video Solution

23. In the region of A-band of a myofibril of a
skeletal muscle where thick and thin filaments
overlap. each thick filament is surrounded by
A. Six thick filaments
B. Two thick filaments
C. Three thick filaments
D. Four thick filanients

## Answer: C

## D Watch Video Solution

## 24. Fast twitch muscle fibres have abundant

A. ER
B. mitochondria
C. myoglobin
D. haemoglobin

# 25. Muscle that is attached to the malleus is 

A. 1)Orbicularis oris
B. 2)Masseter
C. 3)Stapedius
D. 4)Tensor tympani

## Answer: D

# 26. The largest muscle in the human body is 

A. Gluteus maximus
B. Stapedial muscle
C. Gastrocnemius
D. Sartorius muscle

## Answer: D

27. The stiffness of the body after death is due to which phenomenon.
A. 1, Latent period
B. 2. Refractory period
C. 3. Rigor mortis
D. 4. Tetanus

Answer: C
( Watch Video Solution

1. Choose the wrong match
A. 1)Sutures - fibrous joints
B. 2)Saddle joints - synovial joints
C. 3)Condyloid joints - fibrous joints

D. 4)Symphyses - cartilaginous joints

Answer: C

# 2. The pelvic girdle articulates to 

A. Sacrum
B. Atlas
C. Coccyx

D. Axis

Answer: A
3. The medial, weight-bearing bone of the leg is
A. Radius
B. Fibula
C. Ulna
D. Tibia

Answer: D

D Watch Video Solution
4. The only bone of the skull that does not articulate with any other bone is
A. Mandible
B. Malleus
C. Hyoid
D. Zygomatic

Answer: C

- Watch Video Solution

5. The total number of vertebrae during early development is
A. A) 33
B. B) 29
C. C) 26
D. D) 30

Answer: A

D Watch Video Solution
6. Why are the lumbar vertebrae the largest and strongest in the vertebral column?
A. Atlas
B. Axis
C. Thoracic
D. Lumbar

Answer: D

D Watch Video Solution
7. The number of paired bones in the axial skeleton of an adult human is
A. 23
B. 34
C. 40
D. 48

Answer: A

D Watch Video Solution
8. All of the following structures in the human
skeleton are made up of a single bone except
A. Lower jaw
B. Hyoid
C. Upper jaw
D. Zygomatic arch

Answer: C

D Watch Video Solution
9. The number of unpaired bones in the axial skeleton of an adult human is
A. 40
B. 34
C. 58
D. 2

Answer: B
(D) Watch Video Solution
10. The smallest bone of the face is
A. Lacrimal Work
B. Palatines
C. Vomer
D. Mandible

Answer: A

D Watch Video Solution
11. The bone that bears coracoid process is
A. Clavicle
B. Humerus
C. Scapula
D. Pubis

## Answer: C

## D Watch Video Solution

12. Study the following diagram of human skull and choose the option that correctly identifies
one of the labels.

A. 1) B-Sagittal suture
B. 2)D-Lambdoid suture
C. 3)C-Squamous suture
D. 4)A-Coronal suture

## Answer: D

## D Watch Video Solution

13. Coronal suture is formed in between
A. Parietal and occipital
B. Parietal and parietal
C. Parietal and frontal
D. Parietal and temporal

# 14. The bone with foramen of magnum is 

A. Frontal
B. Temporal
C. Occipital
D. Sphenoid

## Answer: C

# 15. The longest and strongest bone of skull is 

A. Hyoid
B. Maxilla
C. Zygomatic
D. Mandible

## Answer: D

16. Scroll like bones that form lateral wall of nasal cavity are called
A. Nasals
B. Nasal conchae
C. Palatines
D. Lacrimals

Answer: B
( Watch Video Solution
17. Except ear ossicles the only movable skull bone is
A. Vomer
B. Maxilla
C. Mandible
D. Zygomatic

Answer: C

D Watch Video Solution
18. Arrange the bones in ascending order w.r.t.
length
A. Stapes lacrimal Mandible Tibia
B. Stapes Mandible Lacrimal Femur
C. Femur Mandible lacrimal Stapes
D. Femur stapes ulna radius

Answer: A

D Watch Video Solution
19. In the pelvic girdle of man $A, B, C, D$ and $E$
respectively represent

A. 1)A-Pubis, B-Sacrum, C-Coccyx, D-

Acetabulum, E-Pubic symphysis
B. 2) A-llium, B-Sacrum, C-Coccyx, D-

Acetabulum, E-Pubic symphysis

# C. 3)A-Ilium, B-Coccyx, C-Sacrum, D- 

Acetabulum, E-Pubic symphysis
D. 4)A-llium, B-Sacrum, C-Coccyx, D-Pubic
symphysis, E-Acetabulum

Answer: B

D Watch Video Solution
20. Identify the correct match.
A. Parietal bone - Lateral wall and floor of the cranial cavity
B. Sphenoid bone - Keystone bone
C. Occipital bone - Anterior base of the skull

# D. Temporal • Lateral wall and roof of the 

 cranial cavityAnswer: B
21. Identify the incorrect statement
A. Femur is the longest bone
B. Stapes is smallest bone found in ear
C. Stapedius is smallest muscle in our body

D. Turbinal bones can be traced in

forelimbs

Answer: D
22. Identify the correct match from the

## following

A. 1)Acetabulum - Pectoral girdle
B. 2)Glenoid cavity - Pelvic girdle
C. 3)Centrum - Vertebrae
D. 4)Manubrium - Ribs

Answer: C

## - Watch Video Solution

23. Sprain is due to excessive pulling of

A. Tendon

B. Neuron

C. Muscle

D. Ligament

## Answer: D

## 24. Epiphyseal plate helps in the

A. thickness of bone
B. elongation of bone
C. formation of bone
D. all of these

Answer: B
25. In mammals the lower jaw is made of
A. dentary
B. maxilla
C. angular
D. articular

Answer: A

# 26. Greater trochanter and lesser trochanter 

## occur in

A. Humerus
B. Femur
C. Radio-ulna
D. Tibio-fibula

Answer: B

## 27. Standing on tip toe example of

A. Elevation

B. Flexion

C. Depression
D. Retraction

Answer: A
( Watch Video Solution
28. The thumb is also known as
A. Hallux

B. Prehallux

C. Calcar
D. Pollex

Answer: D

- Watch Video Solution

29. What will happen if ligaments are torn?
A. bones will be move freely at joints. \& no pain

B. bone will be less movable at joint \& painful

C. bone will become unfixed
D. bone will become fixed

## Answer: B

30. Identify the incorrect combination
A. Incus-modified quadrate
B. Stapes-modified hyoid
C. Malleus-modified articular
D. Patella-ossified tendon

Answer: B

# 31. The major constituent of vertebrate bone is 

A. Calcium phosphate

B. Sodium chloride
C. Calcium carbonate

D. Collagen

Answer: A
32. The bones involved in the formation of hard palate are
A. Mandible and nasal conchae
B. Maxillae and palatines
C. Lacrimals and zygomatics
D. Vomer and nasals

Answer: B

D Watch Video Solution
33. Which of the following is a sesamoid bone?
A. Clavicle
B. Pisiform
C. Patella
D. Pterygoid

Answer: B

D Watch Video Solution
34. Bone formed by ossification of tendon is
A. Zygomatic
B. Vomer
C. Patella
D. Coccyx

## Answer: C

D Watch Video Solution
35. The smallest bone in the body helps in
A. Haemopoiesis
B. Protection to delicate parts
C. Transmission of sound waves
D. Providing surface for attachment of muscles

Answer: C

D Watch Video Solution
36. The sesamoid bone in the wrist is
A. Scaphoid
B. Pisiform

## C. Lunate

D. Trapezium

Answer: B

## - Watch Video Solution

37. The number of phalanges in the index
finger is
A. 2
B. 1
C. 4
D. 3

## Answer: D

## D Watch Video Solution

## 38. Number of phalanges in the thumb is

A. Three
B. One

## C. Four

D. Two

## Answer: D

D Watch Video Solution
39. The unpaired process of a typical vertebra of man is
A. Spinous process
B. Superior articular process

## C. Transverse process

D. Inferior articular process

## Answer: A

## D Watch Video Solution

40. The bone of the upper limb with a deltoid tuberosity is
A. Radius
B. Pisiform

## C. Ulna

D. Humerus

## Answer: D

## - Watch Video Solution

41. A bone that is formed within the mesenchyme is called
A. Endochondral bone
B. Replacing bone
C. Sesamoid bone
D. Dermal bone

## Answer: D

## - Watch Video Solution

42. The vertebra that bears the dens is
A. Atlas
B. Axis
C. C3

## D. C7

Answer: B

## D Watch Video Solution

43. Yellow bone marrow is found especially in
the medullary cavity of
A. Short bones
B. Spongy bones
C. Long bones

## D. All of these

## Answer: C

## D Watch Video Solution

44. Talus is a/an
A. Ankle bone
B. Collar bone
C. Wrist bone
D. Palm bone

Answer: A

## - Watch Video Solution

45. The membrane bone in the appendicular skeleton is
A. Clavicle
B. Parietal
C. Scapula
D. Humerus

Answer: A

## - Watch Video Solution

46. If a bone splinters at the site of impact and
smaller bone fragments lie between the two
main fragments, it is called
A. compound fracture
B. impacted fracture
C. stress fracture
D. comminuted fracture

## Answer: D

## D Watch Video Solution

47. Sharpey's fibres, are composed of
A. Collagen
B. Elastin
C. Gelatin
D. Chitin
48. A lataral deviation of the alignment of the
vertebral column is called
A. Kyphosis
B. Scoliosis
C. Lordosis
D. Cyanosis

Answer: B
49. 'Soft spots' in the skull of a new-born infant are
A. Sutures
B. Fontanels
C. Foramina
D. Facets

Answer: B

- Watch Video Solution


## Exercise li Joints

1. Which of the following is a cartilaginous
joint?
A. Gomphosis
B. Suture
C. Syndesmosis
D. Symphysis

## - Watch Video Solution

2. Which of the following joints enable the palm to turn anteriorly and posteriorly is
A. Ball and socket joint between scapula and humerus
B. Saddle joint between the carpal and metacarpal of the thumb
C. Hinge joint between the capitulum of
the humerus and the head of the radius
D. Pivot joint between the head of the radius and the radial notch of the ulna

## Answer: D

## D Watch Video Solution

3. Which of the following is a ball and socket
joint?
A. hip joint
B. elbow joint

## C. atlanto-axial joint

D. knee joint

## Answer: A

## D Watch Video Solution

4. The joint not associated with the upper limb
bones of humans is
A. Condyloid joint
B. Synarthrosis

## C. Saddle joint

D. Hinge joint

Answer: B
(D) Watch Video Solution

## 5. Identify the correct match.

|  | Joint | Example | Movement |
| :--- | :--- | :--- | :--- |
| 1 | Syndesmosis | Interosseous <br> membrane <br> between tibia <br> and fibula | Synarthrosis |
| 2) | Symphysis | Intervertebral <br> disc | Amphiarthrosii |
| 3) | Pivot joint | Atlas and axis | Synarthrosis |
| 4) | Gomphosis | dento-alveolar <br> joint | Amphiarthrosis |

## - Watch Video Solution

6. Identify the set of fibrous joints from the

## following.

A. Condyloid, Pivot, gomphosis
B. Synchondrosis, syndesmosis, ball and socket
C. Gomphoses, sutures, syndesmoses
D. Hinge joint, saddle joint, gliding joint

Answer: C

D Watch Video Solution
7. Consider the following four statements (P-S)
related to synovial joints and select the
correct option stating which ones are true ( $T$ )
and which ones are false.(F). P) Hip joint is a
ball and socket joint Q)Joint between radius
and ulna in the forearm is a hinge joint R )Joint between occipital and first vertebrae is a pivot
joint S) Joint between carpal and metacarpal
of a thumb is a saddle joint

## P $Q \quad R \quad S$

A.
$\begin{array}{llll}T & T & T & T\end{array}$
$P \quad Q \quad R \quad S$
B.
$F \quad F \quad F \quad F$

# $\begin{array}{llll}P & Q & R & S\end{array}$ <br> C. $\begin{array}{lllll}T & F & T & T\end{array}$ <br> D. $\begin{array}{llll}P & Q & R & S\end{array}$ <br> $T \quad F \quad F T$ 

## Answer: D

## D Watch Video Solution

## 8. Identify the correct the statement

A. All amphiarthroses are fibrous joints
B. All synovial joints are amphiarthroses
C. All cartilaginous joints are synarthroses
D. All sutures are synarthroses

## Answer: D

## D Watch Video Solution

## 9. Which of the following are amphiarthroses?

A. Sutures, gomphoses, synchondroses
B. Pivot, hinge, saddle
C. Syndesinoses, symphyses
D. Gliding joints, condyloid joints

## Answer: C

## D Watch Video Solution

10. Which of the following lubricates ligament
and tendon and is the important constituent of synovial fluid?
A. Chitin
B. Lipids
C. Hyaluronidase
D. Hyaluronic acid

## Answer: D

## - Watch Video Solution

11. Joint that produces an angular motion and permits only flexion and extension is
A. gliding joint
B. hinge joint
C. pivot joint
D. ball and socket joint

Answer: B

## - Watch Video Solution

12. joint where synovial capsule and synovial
fluid are lacking is
A. Intercarpal joint
B. Pubic symphysis
C. Interphalangeal joint
D. Hip joint

Answer: B

## D Watch Video Solution

13. Which of the following has more number of
joints?
A. Pectoral girdle
B. Pelvic girdle
C. Mandible
D. Cranium

## Answer: D

## D Watch Video Solution

14. How many saddle joints can be traced in human limbs?
A. 2
B. 4
C. 8
D. 10

## Answer: A

## D Watch Video Solution

Exercise li Disorders Of Muscular And Skeletal
Systems

1. Gout disease in humans is due to
A. Excessive production of uricase
B. Impaired catabolism of pyrimidines
C. Excessive excretion of uric acid

## D. Excessive catabolism of purines

## Answer: D

## D Watch Video Solution

## Exercise lii Previous Aipmt Neet Questions

1. Out of ' $X$ ' pairs of ribs in humans only ' $Y$ ' pairs are true ribs. Select the option that correctly represents values of $X$ and $Y$ and provides their explanation
A. $X=12, Y=7$ True ribs are attached
dorsally to vertebral coloumn 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. $X=24, \quad Y=7$ 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

## D Watch Video Solution

2. Lack of relaxation between successive stimuli in striated muscle contraction is known as
A. spasm
B. fatigue
C. tetanus
D. tonus

## Answer: C

## D Watch Video Solution

3. It is much easier for a small animal to run
uphill than for a large animal because
A. It is easier to carry a small body weight
B. Smaller animals have a higher metabolic

## rate

# C. Small animals have a lower 

Orequirement

# D. The efficiency of muscles in large animals 

is less than in the small animals

## Answer: B

## D Watch Video Solution

# 4. Name the ion responsible for unmasking of 

 active sites for myosin for cross bridge bridge activity during muscle contraction.A. Calcium
B. Magnesium
C. Sodium
D. Potassium

## Answer: A

5. Osteoporsis, an age-related disease fo
skeletal system, may occur due to

A. immune<br>disorder<br>affecting<br>neuromuscular junction leading to

fatigue
B. high concentration of $C a^{++}$and

$$
N a^{++}
$$

C. decreased level of estrogen

# D. accumulation of uric acid leading to 

## inflammation of joints

## Answer: C

## - Watch Video Solution

6. Which of the following is not a function of the skeletal system
A. Production of body heat
B. Locomiction

## C. Production of erythrocytes

D. Storage of minerals

## Answer: A

## - Watch Video Solution

7. Which of the following joints would allow to movement?
A. Synovial joint
B. Ball and socket joint

## C. Fibrous joint

## D. Cartilaginous joint

## Answer: C

## - Watch Video Solution

8. Sliding filament theory can be best explained as
A. actin and myosin filaments do not shorten but rather slide past each other
B. when myofilaments slide past each other myosin silaments shorten while actin
filaments do not shorten
C. when myofilaments slide past each other
actin filaments shorten while myosin
filaments do not shorten
D. actin and myosin filaments shorten and
slide past each other

## Answer: A

9. Glenoid cavity articulates
A. clavicle with scapula
B. humerus with scapula
C. clavicle with acromion

D. scapula with acromion

## Answer: B

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

|  | Type of joint | Example |
| :--- | :--- | :--- |
| 1) | Cartilaginous join | between frontal and <br> parietal |
| 2) | Pivot joint | between third and <br> fourth cervical <br> vertebrae |
| 3) | Hinge joint | between humerus <br> and pectoral girdle |
| 4) | Glidíng joint | between carpals |

- Watch Video Solution

11. Stimulation of a muscle fiber by a motor neu- ron occurs at
A. the neuromuscular junction
B. the transverse tubules
C. the myofibril
D. the sarcoplasmic reticulum

Answer: A

D Watch Video Solution
12. Select the correct statement with respect to locomotion in humans
A. The vertebral column hus 10 thoracic
vertebrae
B. The joint between adjacent vertebrae is
a fibrous joint
C. A decreased level of progesterone
causes osteoporosis in old people
D. Accumulation of uric acid crystals in
joints causes their inflammation

## Answer: D

## - Watch Video Solution

13. The H-zone in the skeletal muscle fibre is dueto
A. The central gap between actin filaments
extending through myosin filaments in
the A-b and
B. Extension of myosin filaments in the
central portion of the A-band
C. The absence of myofibrils in the central
portion of A-band

D. The central gap between myosin

filaments in the A-band

Answer: A

## D Watch Video Solution

## 14. The characteristics and an example of a

## synovial joint in humans is

| Charateristics | Examples |
| :---: | :---: |
| (1) fluid filled synovial cavity between two bones <br> (2) lymph filled between two bones, limited movement <br> (3) fluid cartilage between two bones, limited movements <br> (4) fluid filled between two joints, provides cushion | joint between atlas and axis <br> gliding joint between carpals <br> Knee joint <br> Skull bones |

## D Watch Video Solution

## 15. During muscle contraction

A. Surcomere does not shorten
B. A band remains same
C. A, H and I bands shorten
D. actin filaments shorten

## Answer: B

## D Watch Video Solution

16. Select the correct statement with respect to disorders of muscles in humans.
A. Failure of neuromuscular transmission
in inyasthenia gravis can prevent normal
swallowing

B. Accumulation of urea and creatine in the

joints causes their inflammation.
C. An overdose of vitamin $D$ causes
osteoporosis.
D. Rapid contractions of skeletal muscles
cause muscle dystrophy.

## - Watch Video Solution

17. Select the correct statement regarding the specific disorder of muscular of skeletal
system
A. Muscular dystrophy - Age related
shortening of muscles
B. Osteoporosis - Decrease in bone mass
and higher chances of fractures with
advancing age.
C. Myasthenia gravis - Autoimmune
disorder which inhibits sliding of myosin
filaments.
D. Gout - Inflammation of joints due to
extra deposition of calcium.

## Answer: B

## - Watch Video Solution

18. Which one of the following pairs of chemical substance is correctly categorised?
A. Calcitonin and thymosin - thyroid
hormones.
B. Pepsin and prolactin - two digestive
enzymes secreted in stomach.
C. Troponin and myosin - complex proteins in striated muscles.
D. Secretin and rhodopsin - polypeptide hormones

## Answer: C

## - Watch Video Solution

19. The type of muscle present in our
A. Heart is involuntary and unstriated smooth muscle
B. Intestine is striated and involuntary
C. Thigh is striated and voluntary
D. Upper arm is smooth muscle and

## fusiform

## Answer: C

## D Watch Video Solution

20. Three of the following paris 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

## D Watch Video Solution

21. Which one of the following pairs of structure is correctly matches with their correct description?

Sturctures Description
22. Which one of the following is 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 $9^{t h}$ and $10^{t h}$ pairs of ribs are called
floating ribs

# D. Glenoid cavity is a depression to which 

 the thigh bone articulates
## Answer: A

## D Watch Video Solution

23. Wich one of the following is the correct matching of three items and their grouping category?

## 24. Elbow joint is

A. hinge joint
B. gliding joint
C. ball and socket joint
D. pivot joint

Answer: A
25. 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

## D Watch Video Solution

26. In human body, which one of the following is anatomicall correct?
A. Collar bones -3 pairs
B. Salivary glands - 1 pair
C. Cranial nerves - 10 pairs
D. Floating ribs - 2 pairs

Answer: D

D Watch Video Solution

