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QUIZZES

Unit Wise Test-9 (Support and Movement)



30 Questions

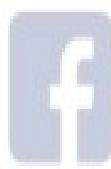


25 min

Topics

Human Skeleton (Bone and Cartilage),  
Joints, Comparison of Muscles Types,  
Structure and Ultra-structure of Skeletal  
Muscles, Sliding Filament Model and Energy  
for Muscle Contraction, Disorder of Human  
Skeleton

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Start Quiz

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Q 1/30 25 min Hint

Q : All of the following are the functions of endoskeleton in humans except:

A Protection

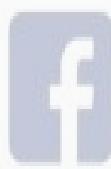
B Support

C Mineral homeostasis

D Temperature homeostasis

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2/30



25 min



Hint

Q : It provides an attachment site for a muscle:

A

Compact bone

B

Spongy bone

C

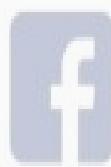
Hyaline cartilage

D

Fibrocartilage

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## SAEED MDCAT TEAM



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3/30



25 min



Hint

Q : Blood vessels do not penetrate in:

A

Compact bone

B

Spongy bone

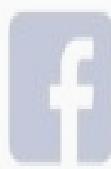
C

Cartilage

D

Muscle

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**SAEED MDCAT TEAM**



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4/30



25 min



Hint

Q :

In cartilage, collagen is secreted by:

A Osteoblasts

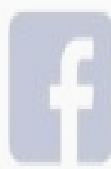
B Osteocytes

C Osteoclasts

D Chondrocytes

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Q

5/30



25 min



Hint

Q :

Basic protein which forms ground matrix of connective tissues is:

A Actin

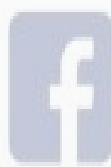
B Fibrous

C Collagen

D Chondrocytes

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6/30



25 min



Hint

Q : Joints that fix teeth into the jaws are:

A

Fibrous joints

B

Primary cartilaginous joints

C

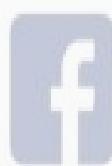
Secondary cartilaginous joints

D

Synovial joints

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7/30



25 min



Hint

Q : Movement possible on pivot joint is:

A Flexion

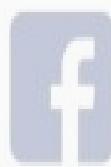
B Rotation

C Extension

D No movement allowed

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8/30



25 min



Hint

Q : Pick an incorrect statement about synovial joint:

A

Surrounded by a fibrous capsule

B

Outer most layer is synovium

C

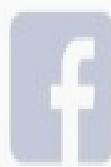
Friction reduction by fluid

D

Always freely movable

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9/30



25 min



Hint

Q : Which types of muscles are found in ureters?

A

Cardiac muscles

B

Smooth muscles

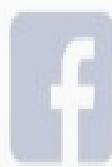
C

Skeletal muscles

D

Striped muscles

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10 / 30



25 min



Hint

Q : All of the following are examples of skeletal muscles except:

A Papillary muscles

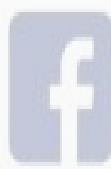
B Calf muscles

C Brachialis

D Tongue muscles

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11/30



25 min



Hint

Q : Visceral muscles are also called as smooth muscles because they:

A

Don't contain muscle proteins

B

Don't have striations

C

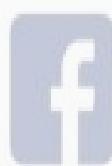
Don't have multiple nuclei

D

Help in peristalsis

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Q

12/30

V

25 min

A

Hint

Q : Generally, each end of the entire skeletal muscle is attached to bone by a bundle of collagen, non-elastic fibers known as:

A

Capsule

B

Tendon

C

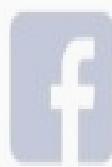
Ligament

D

Synovium

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Q

13 / 30



25 min



Hint

Q : All of the following are true about nucleus in skeletal muscle cells except:

A

Oval shaped

B

Less nuclear pores

C

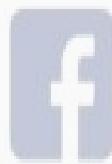
Multiple in number

D

Central in position

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Q

14/30



25 min



Hint

Q : A band of a skeletal muscle fiber contains:

A

Thick filament only

B

Thin filament only

C

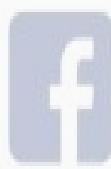
Both thick & thin filaments

D

Neither thick nor thin filament

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Q

15 / 30

V

25 min

A

Hint

Q : The thick filament is composed of:

A

Actin

B

Myosin

C

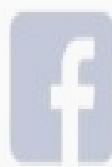
Troponin

D

Tropomyosin

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Q

16 / 30

V

25 min

A

Hint

Q : Muscle bundle is enclosed by a membrane called:

A

Sarcolemma

B

Epimysium

C

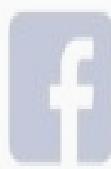
Perimysium

D

Endomysium

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17/30



25 min



Hint

Q : Muscle hemoglobin is present in:

A

Sarcomere

B

Sarcoplasmic reticulum

C

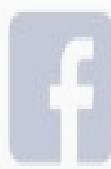
Sarcolemma

D

Sarcoplasm

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18 / 30



25 min



Hint

Q : It is actually three polypeptide complex:

A

Actin

B

Myosin

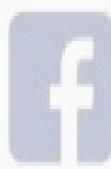
C

Troponin

D

Tropomyosin

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19 / 30



25 min



Hint

Q :

Site for attachment of calcium ions is present on:

A Actin

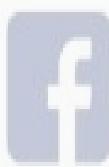
B Troponin

C Myosin

D Tropomyosin

# SAEED MDCAT

## SAEED MDCAT TEAM



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Q

20/30

V

25 min

A

Hint

Q : Twisting around the actin chains, there are two strands of another protein called:

A

Myoglobin

B

Myosin

C

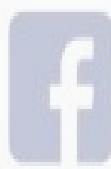
Troponin

D

Tropomyosin

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21/30



25 min



Hint

Q : All of the following changes occur during muscle contraction except:

A Z lines become close

B H zone disappears

C A band become short

D Overlapping increases

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**SAEED MDCAT TEAM**



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15

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22/30



25 min



Hint

Q : Rigor mortis (stiffening of body) is due to unavailability of:

A Actin

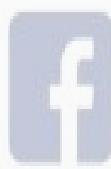
B Myosin

C ATP

D Calcium

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**SAEED MDCAT TEAM**



**SAEEDMDCAT**

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23/30



25 min



Hint

Q : In skeletal muscle under anaerobic conditions, ATP can be generated by:

A

Glycolysis

B

Krebs cycle

C

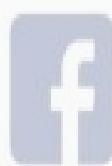
Pyruvic acid oxidation

D

Respiratory chain

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Q

24/30

V

25 min

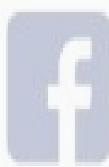
A

Hint

Q : All of the following changes appear in skeletal muscles after aerobic exercises except:

- A Capillaries increase
- B Mitochondria increase
- C Myoglobin increases
- D Cell fibers increase

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Q

25/30

V

25 min

A

Hint

Q : During increased muscular activity, all can happen except:

A

More CO<sub>2</sub> is liberated

B

Temperature increases

C

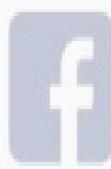
More oxygen delivery to muscles

D

HbO<sub>2</sub> does not dissociate

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26/30



25 min



Hint

Q : Complete immobilization of muscle leads to:

A

Fatigue resistance

B

Muscle fatigue

C

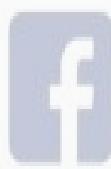
Muscle atrophy

D

Muscle hypertrophy

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27/30



25 min



Hint

Q : Biceps brachii has insertion on:

A Scapula

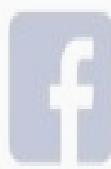
B Humerus

C Ulna

D Radius

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28/30



25 min



Hint

Q : All of the following are skeletal disorders except:

A Spondylosis

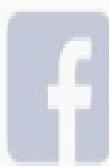
B Sciatica

C Osteoporosis

D Rickets

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29/30



25 min



Hint

Q : A mass of clotted blood formed at fracture site is called:

A Soft callus

B Hematoma

C Bony callus

D Oedema

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**SAEED MDCAT TEAM**



**SAEEDMDCAT**

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Q

30/30

V

25 min

A

Hint

Q : \_\_\_\_\_ and \_\_\_\_\_ migrate into the fracture site and begin to construct bone.

A

Fibroblasts, Osteoblasts

B

Fibroblasts, Osteocytes

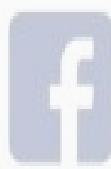
C

Osteocytes, Osteoblasts

D

Osteoblasts, Chondrocytes

SAEED MDCAT  
SAEED MDCAT TEAM



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Correct



Unattempted



Incorrect



1/30

Q : All of the following are the functions of endoskeleton in humans except:

A

Protection

B

Support

C

Mineral homeostasis

D

Temperature homeostasis

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Bones are the reservoirs of minerals.

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Correct



Unattempted



Incorrect



2/30

Q : It provides an attachment site for a muscle:

**A**

Compact bone

**B**

Spongy bone

**C**

Hyaline cartilage

**D**

Fibrocartilage

# SAEED MDCAT

Explanation

## SAEED MDCAT TEAM

Muscles are attached to bones and spongy bone is buried deep inside the compact bone thus unavailable for attachment.

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Correct



Unattempted



Incorrect



3/30

Q : Blood vessels do not penetrate in:

A

Compact bone

B

Spongy bone

C

Cartilage

D

Muscle

# SAEED MDCAT

Explanation

## SAEED MDCAT TEAM

Bones and muscles have a tendency to get repaired therefore they must have blood supply.

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Correct



Unattempted



Incorrect



4/30

Q :

In cartilage, collagen is secreted by:

A

Osteoblasts

B

Osteocytes

C

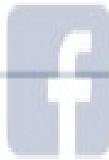
Osteoclasts

D

Chondrocytes

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SAEED MDCAT TEAM  
Explanation



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Collagen in cartilage is secreted by cells of cartilage.

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Correct



Unattempted



Incorrect



5/30

Q :

Basic protein which forms ground matrix of connective tissues is:

A

Actin

B

Fibrous

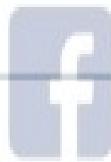
C

Collagen

D

Chondrocytes

**SAEED MDCAT TEAM**  
Explanation



**SAEEDMDCAT**

Collagen and actin are fibrous in nature but actin is found in muscles only.

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Correct



Unattempted



Incorrect



6/30

Q : Joints that fix teeth into the jaws are:

**A**

Fibrous joints

**B**

Primary cartilaginous joints

**C**

Secondary cartilaginous joints

**D**

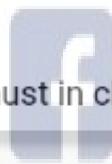
Synovial joints

# SAEED MDCAT

Explanation

## SAEED MDCAT TEAM

Bones must in close contact with each other.



# SAEEDMDCAT

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Correct



Unattempted



Incorrect



7/30

Q : Movement possible on pivot joint is:

A

Flexion

B

Rotation

C

Extension

D

No movement allowed

**SAEED MDCAT**

Explanation

**SAEED MDCAT TEAM**



Flexor is a part and parcel of extensor that allows 180° movement.

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Correct



Unattempted



Incorrect



8/30

Q : Pick an incorrect statement about synovial joint:

**A**

Surrounded by a fibrous capsule

**B**

Outer most layer is synovium

**C**

Friction reduction by fluid

**D**

Always freely movable

# SAEED MDCAT

Explanation

## SAEED MDCAT TEAM

Fibrous capsule is outer part and inner to this capsule is synovial membrane.

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Correct



Unattempted



Incorrect



9/30

Q : Which types of muscles are found in ureters?

**A**

Cardiac muscles

**B**

Smooth muscles

**C**

Skeletal muscles

**D**

Striped muscles

# SAEED MDCAT

Explanation

## SAEED MDCAT TEAM

Involuntary and non-striated muscles are found in walls of ureters.



# SAEEDMDCAT

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Correct



Unattempted



Incorrect



10/30

Q : All of the following are examples of skeletal muscles except:

**A**

Papillary muscles

**B**

Calf muscles

**C**

Brachialis

**D**

Tongue muscles

# SAEED MDCAT

Explanation

# SAEED MDCAT TEAM

Muscles that are found in heart are involuntary.



# SAEEDMDCAT

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Correct



Unattempted



Incorrect



11/30

Q : Visceral muscles are also called as smooth muscles because they:

A Don't contain muscle proteins

B Don't have striations

C Don't have multiple nuclei

D Help in peristalsis

**SAEED MDCAT**

Explanation

**SAEED MDCAT TEAM**

Skeletal muscles and cardiac muscles have striations.



**SAEEDMDCAT**

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Correct



Unattempted



Incorrect



12/30

Q : Generally, each end of the entire skeletal muscle is attached to bone by a bundle of collagen, non-elastic fibers known as:

A

Capsule

B

Tendon

C

Ligament

D

Synovium

**SAEED MDCAT**

**Explangation TEAM**



**SAEEDMDCAT**

Fibrous structure encapsulates a fluid to provide cushion or protection whereas ligaments are meant for the attachment of bone with bone.

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Correct



Unattempted



Incorrect



13/30

Q : All of the following are true about nucleus in skeletal muscle cells except:

A Oval shaped

B Less nuclear pores

C Multiple in number

D Central in position

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

Centralized nucleus is found in smooth and cardiac muscles.

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Correct



Unattempted



Incorrect



14/30

Q : A band of a skeletal muscle fiber contains:

A

Thick filament only

B

Thin filament only

C

Both thick & thin filaments

D

Neither thick nor thin filament

**SAEED MDCAT**

Explanation

**SAEED MDCAT TEAM**

Myosin and actin both must present in order to perform their function.



**SAEEDMDCAT**

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Correct



Unattempted



Incorrect



15/30

Q : The thick filament is composed of:

A

Actin

B

Myosin

C

Troponin

D

Tropomyosin

SAEED MDCAT

Explanation

SAEED MDCAT TEAM

Actin is regarded as thin filament and it also contains two polypeptides.



SAEEDMDCAT

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Correct



Unattempted



Incorrect



16/30

Q : Muscle bundle is enclosed by a membrane called:

A

Sarcolemma

B

Epimysium

C

Perimysium

D

Endomysium

# SAEED MDCAT

Explanation

## SAEED MDCAT TEAM

Muscle fiber is enclosed by endomysium, while epimysium envelopes the whole muscle.

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Correct



Unattempted



Incorrect



17/30

Q : Muscle hemoglobin is present in:

A

Sarcomere

B

Sarcoplasmic reticulum

C

Sarcolemma

D

Sarcoplasm

SAEED MDCAT

Explanation

SAEED MDCAT TEAM

Myoglobin is found in cytoplasm of muscle cell.

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Correct



Unattempted



Incorrect



18/30

Q : It is actually three polypeptide complex:

A

Actin

B

Myosin

C

Troponin

D

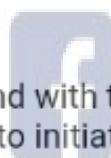
Tropomyosin

# SAEED MDCAT

Explanation

## SAEED MDCAT TEAM

It can bind with tropomyosin and actin while on the other hand with calcium to initiate contraction



# SAEEDMDCAT

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Correct



Unattempted



Incorrect



19/30

Q :

Site for attachment of calcium ions is present on:

A

Actin

B

Troponin

C

Myosin

D

Tropomyosin

SAEED MDCAT TEAM  
Explanation



SAEEDMDCAT

Tropomyosin and actin are attached with one another and second attachment is with

troponin and no more site is available for attachment to calcium.

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Correct



Unattempted



Incorrect



20/30

Q : Twisting around the actin chains, there are two strands of another protein called:

A

Myoglobin

B

Myosin

C

Troponin

D

Tropomyosin

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

Myosin is not twisted around actin and troponin is a three-polypeptide complex.

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Correct



Unattempted



Incorrect



21/30

Q : All of the following changes occur during muscle contraction except:

A Z lines become close

B H zone disappears

C A band become short

D Overlapping increases

**SAEED MDCAT**

Explanation

**SAEED MDCAT TEAM**

Sliding requires one participant to stay static while the other has to slide (I band).

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Correct



Unattempted



Incorrect



22/30

Q : Rigor mortis (stiffening of body) is due to unavailability of:

A

Actin

B

Myosin

C

ATP

D

Calcium

# SAEED MDCAT

Explanation

## SAEED MDCAT TEAM

Minerals and contractile subunits are present in body even after death



# SAEEDMDCAT

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Correct



Unattempted



Incorrect



23/30

Q : In skeletal muscle under anaerobic conditions, ATP can be generated by:

A

Glycolysis

B

Krebs cycle

C

Pyruvic acid oxidation

D

Respiratory chain

SAEED MDCAT  
Explantion TEAM

Continuous supply of ATP can only be made possible by short and effective set of reactions without consuming much time.

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Correct



Unattempted



Incorrect



24/30

Q : All of the following changes appear in skeletal muscles after aerobic exercises except:

A Capillaries increase

B Mitochondria increase

C Myoglobin increases

D Cell fibers increase

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

Hyperplasia is evident in muscles after exercise.

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Correct



Unattempted



Incorrect



25/30

Q : During increased muscular activity, all can happen except:

A

More CO<sub>2</sub> is liberated

B

Temperature increases

C

More oxygen delivery to muscles

D

HbO<sub>2</sub> does not dissociate

SAEED MDCAT

Explanation

SAEED MDCAT TEAM

During exercise the oxygen requirement of muscles increases which is fulfilled by the dissociation of HbO<sub>2</sub>. More CO<sub>2</sub> is liberated, and increased utilization of ATP produces heat which raises temperature.

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Correct



Unattempted



Incorrect



26/30

Q : Complete immobilization of muscle leads to:

A

Fatigue resistance

B

Muscle fatigue

C

Muscle atrophy

D

Muscle hypertrophy

**SAEED MDCAT**

Explanation

**SAEED MDCAT TEAM**

Muscles hypertrophy is increase in size of cells due to excess usage.



**SAEEDMDCAT**

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Correct



Unattempted



Incorrect



27/30

Q : Biceps brachii has insertion on:

A

Scapula

B

Humerus

C

Ulna

D

Radius

SAEED MDCAT

Explanation

SAEED MDCAT TEAM

Biceps brachii arises by two heads from scapula and inserted on the medial surface of the radius bone.

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Correct



Unattempted



Incorrect



28/30

Q : All of the following are skeletal disorders except:

A

Spondylosis

B

Sciatica

C

Osteoporosis

D

Rickets

# SAEED MDCAT

Explanation

## SAEED MDCAT TEAM

Sciatica is caused by an irritation, inflammation, pinching or compression of a sciatic nerve in the lower back.

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Correct



Unattempted



Incorrect



29/30

Q : A mass of clotted blood formed at fracture site is called:

A

Soft callus

B

Hematoma

C

Bony callus

D

Oedema

# SAEED MDCAT

Explanation

## SAEED MDCAT TEAM

Hematoma is generally defined as a collection of blood outside of blood vessels.

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Correct



Unattempted



Incorrect



30/30

Q : \_\_\_\_\_ and \_\_\_\_\_ migrate into the fracture site and begin to construct bone.

A

Fibroblasts, Osteoblasts

B

Fibroblasts, Osteocytes

C

Osteocytes, Osteoblasts

D

Osteoblasts, Chondrocytes

**SAEED MDCAT**  
SAEED MDCAT TEAM



**SAEEDMDCAT**

Following tissue bone injury, **fibroblasts** and osteoblasts migrate to the site of damage where they deposit new collagen and facilitate the healing process.

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