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# 040-444

## ACSM

*ACSM Registered Clinical Exercise Physiologist*

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**Section 1: Sec One (1 to 33)**

**Details:**

Anatomy and Biomechanics

**QUESTION: 1**

The C-shaped cartilages of the trachea allow all of the following to occur EXCEPT

- A. Ciliated movement of mucus-secreting cells.
- B. Distention of the esophagus.
- C. Maintenance of open airway.
- D. Prevention of tracheal collapse during pressure changes.

**Answer: A**

**QUESTION: 2**

Functions of bone include all of the following EXCEPT

- A. Support for the body.
- B. Protection of organs and tissues.
- C. Production of red blood cells.
- D. Production of force.

**Answer: D**

**QUESTION: 3**

In the organization of skeletal muscle, the muscle cell contains the contractile proteins. Which of the following is a contractile protein?

- A. Myosin.
- B. Muscle fascicle.
- C. Myofibril.
- D. Muscle fiber.

**Answer: A**

**QUESTION: 4**

A client in your exercise class has been complaining of back pain with no ridiculous

symptoms. This person has been treated medically and is now joining the exercise program to improve flexibility in the low back. Which exercise would be most appropriate for this person to address the stated goal?

- A. Hip flexor stretch.
- B. Knee-to-chest stretch.
- C. Gastrocnemius stretch.
- D. Lateral trunk stretch.

**Answer:** B

**QUESTION: 5**

All of the following statements are true regarding long bones EXCEPT

- A. The diaphysis is composed of compact bone.
- B. The epiphysis consists of spongy bone.
- C. Most bones of the axial skeleton are of this type.
- D. The central shaft encases the medullary canal.

**Answer:** C

**QUESTION: 6**

The arm is capable of performing all of the following motions EXCEPT

- A. Flexion.
- B. Abduction.
- C. Inversion.
- D. Supination.

**Answer:** C

**QUESTION: 7**

The prime movers for extension of the knee are the

- A. Biceps femoris.
- B. Biceps brachii.
- C. Quadriceps femoris.
- D. Gastrocnemius.

**Answer: C**

**QUESTION: 8**

A baseball pitcher has been complaining of weakness in the lateral rotation motions of the shoulder. You have been asked to evaluate him for a strengthening program. Which of the following muscles would you have him concentrate on strengthening?

- A. Subscapularis.
- B. Teres major.
- C. Latissimus dorsi.
- D. Teres minor.

**Answer: D**

**QUESTION: 9**

Cartilage is categorized as which of the following types of connective tissue?

- A. Loose.
- B. Dense.
- C. Fluid.
- D. Supporting.

**Answer: D**

**QUESTION: 10**

Blood leaving the heart to be oxygenated in the lungs must first pass through the right atrium and ventricle. Through which valve does blood flow when moving from the right atrium to the right ventricle?

- A. Bicuspid valve.
- B. Tricuspid valve.
- C. Pulmonic valve.
- D. Aortic valve.

**Answer: B**

**QUESTION: 11**

An abnormal curve of the spine with lateral deviation of the vertebral column is called

- A. Lordosis.
- B. Scoliosis.
- C. Kyphosis.
- D. Primary curve.

**Answer:** B

**QUESTION:** 12

Which of the following is considered to be a "ball-and-socket" joint?

- A. Ankle.
- B. Elbow.
- C. Knee.
- D. Hip.

**Answer:** D

**QUESTION:** 13

Which of the following is the ability of a force to cause rotation of a lever?

- A. Center of gravity.
- B. Base of support.
- C. Torque.
- D. Stability.

**Answer:** C

**QUESTION:** 14

Standard sites for the measurement of skinfolds include the

- A. Medial thigh.
- B. Biceps.
- C. Infrailiac.
- D. Forearm.

**Answer:** B

**QUESTION:** 15

A standard site for the measurement of circumferences is the

- A. Abdomen.
- B. Neck.
- C. Wrist.
- D. Ankle.

**Answer:** A

**QUESTION:** 16

The most common site used for measurement of the pulse during exercise is the

- A. Popliteal.
- B. Femoral.
- C. Radial.
- D. Dorsalis pedis.

**Answer:** C

**QUESTION:** 17

Blood from the peripheral anatomy flows to the heart through the superior and inferior venae cavae into the

- A. Right atrium.
- B. Left atrium.
- C. Right ventricle.
- D. Left ventricle.

**Answer:** A

**QUESTION:** 18

arteries are large-diameter vessels that carry blood away from the heart. As they course through the body, they progressively decrease in size until they become

- A. Arterioles.
- B. Anastomoses.
- C. Venules.
- D. Veins.



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