

CanFit Pro Fitness Instructor Specialist (FIS) Theory Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

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SAMPLE

Questions

SAMPLE

- 1. Which muscle type produces the majority of a movement?**
 - A. Antagonist muscle**
 - B. Synergist muscle**
 - C. Agonist muscle**
 - D. Stabilizer muscle**
- 2. During what condition does the body experience EPOC?**
 - A. When resting post-exercise**
 - B. After intense exercise**
 - C. During low-intensity workouts**
 - D. While sleeping**
- 3. What body parts are classified as appendicular?**
 - A. Skull and sternum**
 - B. Ribs and spine**
 - C. Shoulder and limbs**
 - D. Cervical vertebrae**
- 4. What does the term "dorsiflexion" refer to?**
 - A. Bending the foot upward**
 - B. Bending the foot downward**
 - C. Rotating the ankle**
 - D. Stabilizing the leg**
- 5. Improving flexibility primarily involves which of the following?**
 - A. Endurance training**
 - B. Stretching and lengthening exercises**
 - C. High-intensity interval training**
 - D. Strength training**
- 6. How can direction be varied in a movement pattern?**
 - A. By changing speed only**
 - B. By focusing purely on rhythm**
 - C. Using front to back or left to right movements**
 - D. By remaining stationary during the exercise**

- 7. What are the primary components of fitness?**
- A. Speed, Power, Agility, Balance**
 - B. Cardio respiratory capacity, Muscle conditioning, Flexibility, Body composition**
 - C. Strength, Endurance, Flexibility, Nutrition**
 - D. Mental capacity, Nutrition, Flexibility, Strength**
- 8. How many strength training sessions should an individual aim to complete per week for optimal results?**
- A. 1-2**
 - B. 3-5**
 - C. 2-4**
 - D. 5-7**
- 9. Increasing or decreasing momentum is a way to alter what aspect of a movement?**
- A. Balance**
 - B. Intensity**
 - C. Frequency**
 - D. Technique**
- 10. What does the associative stage of motor skill learning represent?**
- A. Initial learning of a skill with poor performance**
 - B. Proficiency in basic skills with ongoing improvement**
 - C. Maximum confidence and skill mastery**
 - D. Difficulty with self-correction in performance**

Answers

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1. C
2. B
3. C
4. A
5. B
6. C
7. B
8. C
9. B
10. B

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Explanations

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1. Which muscle type produces the majority of a movement?

- A. Antagonist muscle**
- B. Synergist muscle**
- C. Agonist muscle**
- D. Stabilizer muscle**

The agonist muscle is the primary muscle responsible for producing movement at a joint during an activity. When you perform an action, such as lifting your arm, the agonist muscle contracts to create the movement. For example, during a bicep curl, the biceps brachii acts as the agonist, generating the force necessary to lift the weight. In contrast, other muscle types play supporting roles. The antagonist muscle works to oppose the action of the agonist, helping to control the movement and prevent injury. The synergist muscle assists the agonist, aiding in the movement by stabilizing the joint and ensuring efficient force production. The stabilizer muscle co-contracts to provide stability and support to the surrounding structures, ensuring that the movement is controlled and effective. Understanding the roles of these muscle types is essential for designing effective exercise programs, injury prevention, and rehabilitation, as well as for enhancing athletic performance.

2. During what condition does the body experience EPOC?

- A. When resting post-exercise**
- B. After intense exercise**
- C. During low-intensity workouts**
- D. While sleeping**

EPOC, or Excess Post-Exercise Oxygen Consumption, refers to the increased rate of oxygen intake following strenuous activity intended to erase the body's oxygen deficit. The body experiences EPOC primarily after intense exercise because it requires additional oxygen to restore itself to its pre-exercise state. This process involves the replenishment of oxygen stores, the clearing of lactate, and the re-synthesis of phosphocreatine, among other recovery processes. During intense exercise, the body transitions to anaerobic metabolism, leading to the accumulation of metabolic byproducts that the body needs to clear after the activity has ended. Consequently, once the exercise session concludes, the body continues to consume more oxygen than at rest, thus elevating the metabolic rate temporarily. This phase can last from several minutes to several hours depending on the intensity and duration of the exercise. While resting post-exercise is a state of recovery, it does not represent a period of EPOC since the heightened oxygen consumption associated with intense exercise has already ceased. Low-intensity workouts typically do not elicit the same degree of metabolic disruption as high-intensity ones, resulting in minimal EPOC. Similarly, while sleeping, the body is generally in a restorative state with metabolic functions crucial to recovery but not

3. What body parts are classified as appendicular?

- A. Skull and sternum
- B. Ribs and spine
- C. Shoulder and limbs**
- D. Cervical vertebrae

The appendicular skeleton consists of the bones that make up the limbs and their attachments to the axial skeleton. This includes the shoulder girdle, which connects the arms to the torso, as well as the bones of the arms and legs. The shoulder girdle includes the clavicles and scapulae (shoulder blades), and the limbs consist of the bones in the upper and lower extremities, such as the humerus, radius, ulna, femur, tibia, and fibula. In this context, the correct option identifies the shoulder and limbs, which are the key components of the appendicular skeleton. This classification is essential in understanding human anatomy, particularly when studying movements, muscle attachments, and the function of various body parts during physical activity. Being familiar with the components of the appendicular skeleton aids fitness professionals in assessing functional movement patterns and designing training programs that target specific muscle groups associated with the limbs and shoulder girdle.

4. What does the term "dorsiflexion" refer to?

- A. Bending the foot upward**
- B. Bending the foot downward
- C. Rotating the ankle
- D. Stabilizing the leg

Dorsiflexion specifically refers to the movement in which the foot is raised upwards towards the shin. This action decreases the angle between the dorsum (the top) of the foot and the leg. It is an essential movement that occurs during walking, running, and other activities, allowing the toes to clear the ground and facilitating a proper gait. Understanding dorsiflexion is important for fitness instructors because it plays a crucial role in lower limb mobility and strength, impacting exercises that involve the ankle joint. The other options describe different movements related to the foot and ankle but do not accurately define dorsiflexion. Bending the foot downward refers to plantarflexion, which is the opposite movement. Rotating the ankle is not specific to dorsiflexion but involves other motions such as inversion or eversion. Stabilizing the leg does not describe a specific movement of the foot but rather describes a function or muscular engagement that can occur during various activities. Thus, the movement defined by dorsiflexion is clearly characterized by the upward bending of the foot.

5. Improving flexibility primarily involves which of the following?

- A. Endurance training**
- B. Stretching and lengthening exercises**
- C. High-intensity interval training**
- D. Strength training**

Improving flexibility primarily involves stretching and lengthening exercises because these activities are specifically designed to enhance the range of motion in the joints and muscles. Stretching exercises can be classified into several types, including static stretching, dynamic stretching, and proprioceptive neuromuscular facilitation (PNF). Each of these approaches aims to elongate muscle fibers and improve the elasticity of muscles and connective tissues, fostering greater flexibility. In addition, regular flexibility training can help prevent injury, improve posture, and assist overall movement efficiency. Engaging in dedicated stretching routines, whether static (holding a stretch) or dynamic (moving through a full range of motion), ensures that muscles are sufficiently lengthened and prepared for physical activity. Other options, while contributing to overall fitness and well-being, do not specifically target flexibility. Endurance training focuses primarily on cardiovascular fitness and muscular stamina, high-intensity interval training (HIIT) is geared towards building strength and power while improving cardiovascular conditioning, and strength training is designed to increase muscle strength and hypertrophy. None of these methods directly aim to enhance flexibility to the same degree as dedicated stretching routines do.

6. How can direction be varied in a movement pattern?

- A. By changing speed only**
- B. By focusing purely on rhythm**
- C. Using front to back or left to right movements**
- D. By remaining stationary during the exercise**

Varying direction in a movement pattern is essential for improving overall fitness and movement efficiency. One effective way to achieve this is through incorporating different types of movements such as front to back or left to right. This method engages various muscle groups and promotes balance, coordination, and agility. By altering direction, participants challenge their bodies in different planes of motion, which can aid in functional fitness and improve athletic performance. Changing speed alone does not fully address the concept of directionality, as speed focuses primarily on intensity rather than the trajectory of movement. Similarly, concentrating solely on rhythm may enhance timing and sequencing but does not necessarily impact the direction in which a movement occurs. Remaining stationary during an exercise fails to incorporate directional change altogether, limiting the effectiveness of the workout and the potential benefits that come from moving through space. Therefore, using front to back or left to right movements provides a comprehensive approach to varying direction within exercise programming.

7. What are the primary components of fitness?

- A. Speed, Power, Agility, Balance
- B. Cardio respiratory capacity, Muscle conditioning, Flexibility, Body composition**
- C. Strength, Endurance, Flexibility, Nutrition
- D. Mental capacity, Nutrition, Flexibility, Strength

The primary components of fitness include cardiovascular capacity, muscle conditioning, flexibility, and body composition. These elements are essential for overall physical health and fitness, each contributing to various aspects of performance and well-being. Cardiovascular capacity refers to the efficiency with which the heart, lungs, and muscles utilize oxygen during physical activity, impacting endurance and stamina. Muscle conditioning encompasses strength training and muscular endurance, leading to improved performance and reduced risk of injury. Flexibility is crucial for maintaining a full range of motion in the joints, which can enhance physical performance and reduce the likelihood of injuries. Body composition refers to the proportion of fat and lean mass in the body, influencing metabolic function and overall health. Together, these components create a comprehensive framework for assessing and developing fitness in individuals, serving as a foundation for creating effective fitness programs tailored to specific needs and goals. Understanding these components guides fitness professionals in designing balanced workouts that improve physical performance and promote health.

8. How many strength training sessions should an individual aim to complete per week for optimal results?

- A. 1-2
- B. 3-5
- C. 2-4**
- D. 5-7

For optimal strength training results, aiming for 2-4 sessions per week is widely recommended. This frequency allows for adequate muscle stimulation to promote hypertrophy and strength gains while also providing enough recovery time for the muscles. Muscle growth occurs during the recovery phase after sessions, and spacing workouts appropriately helps prevent overtraining, reduces the risk of injury, and maintains motivation. Additionally, exercising within this range allows individuals to balance strength training with other forms of exercise, such as cardiovascular activities or flexibility training, leading to a well-rounded fitness regimen. While some may benefit from higher frequency training (such as 5-7 sessions), this typically requires advanced programming, higher fitness levels, or specific training goals that may not be suitable for the general population. Therefore, focusing on 2-4 sessions strikes a balance that is effective and sustainable for most individuals looking to improve their strength.

9. Increasing or decreasing momentum is a way to alter what aspect of a movement?

A. Balance

B. Intensity

C. Frequency

D. Technique

Increasing or decreasing momentum directly influences the intensity of a movement. When momentum is increased, it typically means that the force and speed of an exercise are higher, which demands more effort from the muscles involved. This leads to a greater caloric expenditure and a more challenging workout, effectively raising the intensity level of the activity. Conversely, decreasing momentum can result in a slower execution of the movement, allowing for better control and muscle engagement, but with a lower level of exertion. This adjustment can also help practitioners perform movements more safely and effectively, especially when focusing on strength and muscle endurance. In essence, by manipulating momentum, one can significantly modify the intensity of an exercise session, which is a crucial component for designing effective fitness programs.

10. What does the associative stage of motor skill learning represent?

A. Initial learning of a skill with poor performance

B. Proficiency in basic skills with ongoing improvement

C. Maximum confidence and skill mastery

D. Difficulty with self-correction in performance

The associative stage of motor skill learning is characterized by the learner beginning to refine their skills after achieving an initial understanding of the basic movements. During this stage, individuals have typically moved beyond the initial phase where they are just starting to learn and may still be performing inconsistently and with errors. Instead, they start to achieve a more proficient level in the basic skills, and performance becomes more reliable. This stage is marked by ongoing improvement, where learners work on fine-tuning their movements and developing a greater understanding of the skill. They begin to make corrections based on feedback and gain a clearer sense of how to adjust their performance to enhance effectiveness. Mastery of basic skills is evident, and as they continue to practice, they show increased confidence and competence in executing the skill, paving the way for further progress. In contrast, the other options describe different stages or aspects of learning that do not encapsulate the essence of the associative stage effectively.