

# **Exercise is Medicine (EIM) Level 1 Practice Exam Sample Study Guide**



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**SAMPLE**

## **Questions**

- 1. Which of the following factors is NOT part of the F.I.T.T principle?**
  - A. Force**
  - B. Type**
  - C. Intensity**
  - D. Frequency**
- 2. What aspect of exercise does 'Time' refer to in the F.I.T.T principle?**
  - A. The speed at which exercising is performed**
  - B. The duration or length of each exercise session**
  - C. The type of exercise program chosen**
  - D. The average weekly hours of exercise recommended**
- 3. Which training principle indicates that an increase in workload may enhance physical capabilities?**
  - A. Specificity**
  - B. Overload**
  - C. Adaptation**
  - D. Rest**
- 4. Why is it challenging to compare studies on musculoskeletal injuries?**
  - A. Different populations are always used**
  - B. Lack of consistent definitions of "injury"**
  - C. Self-reports are more reliable**
  - D. Different research methods are employed**
- 5. What does strength training entail, and why is it beneficial?**
  - A. It focuses on flexibility through stretching exercises**
  - B. It involves activities that enhance muscle strength and endurance**
  - C. It primarily promotes cardiovascular health**
  - D. It is targeted at improving agility only**

- 6. What does a calorie measure?**
- A. Fat content in food**
  - B. Energy provided by food**
  - C. Volume of food consumed**
  - D. Water content in food**
- 7. What defines sedentary behavior?**
- A. Any activity that causes fatigue**
  - B. Energy expenditure of  $\leq 1.5$  METs while sitting, reclining, or lying**
  - C. Exercising at a low intensity**
  - D. Inactivity for longer than an hour**
- 8. What percentage of daily total energy expenditure is accounted for by physical activity?**
- A. 10%**
  - B. 25%**
  - C. 50%**
  - D. 65%**
- 9. What benefit do social interactions during group exercises provide?**
- A. They distract from the workout**
  - B. They can enhance adherence to exercise**
  - C. They lead to increased competition**
  - D. They usually reduce workout effectiveness**
- 10. What is the main takeaway regarding caloric content from different food types?**
- A. All foods provide the same nutrients**
  - B. Calories are equal across food but not their nutrient value**
  - C. Caloric content is irrelevant**
  - D. Different foods have varying caloric needs**

## **Answers**

SAMPLE

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

**SAMPLE**

## **Explanations**

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**1. Which of the following factors is NOT part of the F.I.T.T principle?**

**A. Force**

**B. Type**

**C. Intensity**

**D. Frequency**

The F.I.T.T principle is a guideline designed to help individuals create a structured exercise program. It stands for Frequency, Intensity, Time (or Duration), and Type of exercise. Each component plays a crucial role in determining how to effectively design a workout regimen. In this context, the factor that is NOT part of the F.I.T.T principle is "Force." While force can be an important factor in certain types of training, especially in strength training where it relates to the amount of weight used, it does not represent one of the four primary components outlined in the F.I.T.T principle. The focus of the F.I.T.T framework is on how often (Frequency) one exercises, how hard (Intensity) they exercise, the length of time (Time) spent on the activity, and the kind of exercise (Type) being performed. Therefore, identifying "Force" as an outlier accurately reflects that this term does not belong within the core considerations of the F.I.T.T principle.

**2. What aspect of exercise does 'Time' refer to in the F.I.T.T principle?**

**A. The speed at which exercising is performed**

**B. The duration or length of each exercise session**

**C. The type of exercise program chosen**

**D. The average weekly hours of exercise recommended**

In the context of the F.I.T.T principle, 'Time' specifically refers to the duration or length of each exercise session. This aspect is essential when designing an exercise program because it helps individuals understand how long they should dedicate to each workout to achieve their fitness goals. Adequate duration is crucial for inducing improvements in cardiovascular fitness, muscular strength, and overall health. For example, if a person is aiming to enhance their aerobic capacity, they must engage in sustained periods of cardiovascular exercise. This duration will vary depending on fitness levels and objectives, but knowing the target length helps in structuring effective workouts. Understanding why 'Time' refers to duration clarifies its importance in creating a balanced and effective training regimen that supports overall health and fitness improvements.

**3. Which training principle indicates that an increase in workload may enhance physical capabilities?**

- A. Specificity
- B. Overload**
- C. Adaptation
- D. Rest

The principle that indicates an increase in workload may enhance physical capabilities is overload. This principle is fundamental in exercise physiology, as it suggests that in order to improve strength, endurance, or any other component of fitness, the body must be subjected to stresses that are greater than what it is accustomed to. When training intensity, volume, or frequency is gradually increased—whether through lifting heavier weights, running longer distances, or performing more repetitions—this overload prompts the body to adapt to the new demands. Consequently, physical capabilities improve as the body becomes stronger and more efficient in response to the increased demands placed upon it. This principle is essential for developing a structured training program, as it provides the foundation for progression and ongoing improvements in fitness levels. Without applying the overload principle, individuals may hit a plateau or fail to make meaningful progress in their training. Other concepts like specificity, adaptation, and rest play important roles in a comprehensive training strategy, but they do not directly imply that increasing workload leads to enhanced capabilities in the same direct way that overload does.

**4. Why is it challenging to compare studies on musculoskeletal injuries?**

- A. Different populations are always used
- B. Lack of consistent definitions of "injury"**
- C. Self-reports are more reliable
- D. Different research methods are employed

The difficulty in comparing studies on musculoskeletal injuries predominantly arises from the lack of consistent definitions of "injury." When researchers do not agree on what constitutes an injury, it can lead to variations in how injuries are categorized and reported. This inconsistency can manifest in terms of severity, duration, and implications of the injury, thus making it challenging to draw comparisons across different studies. For instance, one study might define an injury as a condition that results in an athlete missing a game, while another might include any pain or discomfort experienced by participants during physical activity, regardless of their impact on performance. This variation hampers the ability to synthesize findings or assess the effectiveness of interventions uniformly across research. Although other factors, such as using different populations or research methods, can cause variations, the foundational issue of defining what an injury is creates a fundamental barrier to making effective comparisons across studies.

**5. What does strength training entail, and why is it beneficial?**

- A. It focuses on flexibility through stretching exercises**
- B. It involves activities that enhance muscle strength and endurance**
- C. It primarily promotes cardiovascular health**
- D. It is targeted at improving agility only**

Strength training encompasses a variety of exercises specifically designed to improve muscle strength and endurance. This type of training typically involves resistance activities, where muscles work against an external force such as weights, resistance bands, or bodyweight exercises. The primary goal is to enhance the body's ability to exert force, ultimately leading to increased muscle mass, strength, and functional capacity. The benefits of strength training are numerous; they include improved metabolic rate, better bone density, enhanced joint stability, and the ability to perform everyday activities more efficiently. It can also contribute to overall physical health, help manage weight, and reduce the risk of chronic diseases. This is why the option focusing on enhancing muscle strength and endurance is the most accurate representation of what strength training entails and its associated benefits.

**6. What does a calorie measure?**

- A. Fat content in food**
- B. Energy provided by food**
- C. Volume of food consumed**
- D. Water content in food**

A calorie is a unit of measurement that quantifies the amount of energy provided by food when consumed. When we talk about calories in the context of nutrition, we are referring to the energy that our bodies derive from macronutrients, such as carbohydrates, proteins, and fats, during digestion. These calories are essential for various bodily functions, including maintaining basic metabolism, physical activity, and overall health. Understanding that a calorie measures energy is crucial in the fields of nutrition and exercise because managing energy intake versus energy expenditure is fundamental for weight management and overall health. This concept is particularly relevant in the context of Exercise is Medicine, where the relationship between physical activity and caloric balance plays a significant role in disease prevention and health promotion. While fat content, volume, and water content of food are important nutritional factors, they do not describe what a calorie measures. Each of those attributes may impact caloric content or influence dietary choices, but they do not inherently represent energy in the same way that calories do. Therefore, the correct choice is clearly tied to the fundamental definition of caloric measurement in nutrition.

## 7. What defines sedentary behavior?

- A. Any activity that causes fatigue
- B. Energy expenditure of  $\leq 1.5$  METs while sitting, reclining, or lying**
- C. Exercising at a low intensity
- D. Inactivity for longer than an hour

The definition of sedentary behavior is characterized by energy expenditure of  $\leq 1.5$  METs (Metabolic Equivalent of Task) while in a sitting, reclining, or lying posture. This definition focuses on the low energy expenditure associated with these activities, which signifies a lack of physical movement that is required for more active lifestyles. METs provide a standardized measure that reflects physical activity intensity; specifically, 1 MET is defined as the energy cost of sitting quietly, which typically equates to around 3.5 mL of oxygen consumed per kilogram of body weight per minute. Thus, when activities have energy expenditures of 1.5 METs or lower, they are classified as sedentary behavior, highlighting the crucial distinction between physical inactivity and overall activity levels. The other options do not accurately capture the essence of sedentary behavior. Although fatigue could be associated with inactivity, it is not a definitive measure for defining sedentary activities. Exercising at a low intensity can still involve movement and energy expenditure above the sedentary threshold. Furthermore, while prolonged inactivity might seem closely related, it is not sufficient alone to define sedentary behavior without addressing the associated energy expenditure.

## 8. What percentage of daily total energy expenditure is accounted for by physical activity?

- A. 10%
- B. 25%**
- C. 50%
- D. 65%

Physical activity generally accounts for about 15% to 30% of daily total energy expenditure in the average person, with a typical figure often cited around 25%. This percentage can vary significantly based on an individual's activity level, occupation, and lifestyle. For sedentary individuals, the percentage may be at the lower end of this range, while those who are more physically active might approach or exceed this figure, but for most people, 25% is a reasonable estimate. This understanding emphasizes the importance of physical activity in overall energy expenditure and highlights its role in health management and maintenance. Factors such as basal metabolic rate and thermogenesis from food play larger roles in energy expenditure, but physical activity is a crucial component that individuals can modify to influence their energy balance and health outcomes.

**9. What benefit do social interactions during group exercises provide?**

- A. They distract from the workout**
- B. They can enhance adherence to exercise**
- C. They lead to increased competition**
- D. They usually reduce workout effectiveness**

Social interactions during group exercises can enhance adherence to exercise by fostering a sense of community and support among participants. When individuals engage in physical activity within a social setting, they often feel more motivated and encouraged to attend regularly. The camaraderie built through shared experiences can create accountability, as members of the group are more likely to keep one another inspired and committed to their fitness goals. Additionally, exercising in a group can lead to the enjoyment of socialization, which can make the workout feel less like a chore. This social support is key to maintaining long-term exercise habits, significantly impacting individuals' willingness to continue participating in regular physical activity.

**10. What is the main takeaway regarding caloric content from different food types?**

- A. All foods provide the same nutrients**
- B. Calories are equal across food but not their nutrient value**
- C. Caloric content is irrelevant**
- D. Different foods have varying caloric needs**

The primary understanding from this choice highlights that while different foods can have the same caloric content, their nutritional value can vary significantly. This means that two foods with an equal number of calories might contribute differently to your overall health and well-being depending on their nutrient composition. For instance, 100 calories from a serving of nuts provide essential fats, protein, and vitamins, whereas 100 calories from candy primarily provide sugars and little to no other nutrients. This distinction is crucial because it underscores the importance of not just focusing on caloric intake when it comes to diet and nutrition, but also on the quality of those calories. Choosing nutrient-dense foods can lead to better health outcomes, enhancing overall nutrition and supporting bodily functions effectively. Thus, recognizing that calories alone do not dictate the healthfulness of food is a vital component of dietary education and understanding.