

# FiTOUR Primary Nutrition Certificate Practice Test (Sample)

## Study Guide



**Everything you need from our exam experts!**

**Copyright © 2025 by Examzify - A Kaluba Technologies Inc. product.**

**ALL RIGHTS RESERVED.**

**No part of this book may be reproduced or transferred in any form or by any means, graphic, electronic, or mechanical, including photocopying, recording, web distribution, taping, or by any information storage retrieval system, without the written permission of the author.**

**Notice: Examzify makes every reasonable effort to obtain from reliable sources accurate, complete, and timely information about this product.**

**SAMPLE**

## **Questions**

SAMPLE

- 1. Which macronutrients are essential for human health?**
  - A. Vitamins and minerals**
  - B. Proteins, carbohydrates, and fats**
  - C. Fats, sugars, and cholesterol**
  - D. Water and fiber**
- 2. What does a Low Glycemic Index (GI) represent?**
  - A. 65 or more**
  - B. 56-69**
  - C. 55 or less**
  - D. 45 or less**
- 3. What is a common characteristic of processed foods?**
  - A. They are always low in calories**
  - B. They often contain added sugars, unhealthy fats, and preservatives**
  - C. They are typically organic**
  - D. They have no nutritional value**
- 4. Which vitamin deficiency can lead to conditions affecting the skin and mucous membranes?**
  - A. Thiamine**
  - B. Vitamin B2**
  - C. Nicotinic acid**
  - D. Pyridoxine**
- 5. What is the primary function of carbohydrates in the diet?**
  - A. To provide energy**
  - B. To aid in digestion**
  - C. To support hormone production**
  - D. To assist in fat absorption**

- 6. What is the most abundant form of thiamine found in foods?**
- A. Thiamine hydrochloride**
  - B. Thiamine mononitrate**
  - C. Thiamine triphosphate**
  - D. Thiamine pyrophosphate**
- 7. Which nutrient is most important for bone health?**
- A. Iron**
  - B. Calcium**
  - C. Vitamin D**
  - D. Folic acid**
- 8. What role do legumes play in nutrition?**
- A. They are high in sugars**
  - B. They serve as a source of protein and carbohydrates**
  - C. They should be avoided in all diets**
  - D. They contain only fats**
- 9. What is the maximum recommended percentage of total caloric intake that should come from saturated fats?**
- A. 5%**
  - B. 7%**
  - C. 10%**
  - D. 15%**
- 10. Can excess protein be stored in the body?**
- A. Yes, in muscle tissue**
  - B. No**
  - C. Yes, as fat**
  - D. Yes, as amino acids**

## **Answers**

SAMPLE

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

SAMPLE

## **Explanations**

SAMPLE



## 1. Which macronutrients are essential for human health?

- A. Vitamins and minerals
- B. Proteins, carbohydrates, and fats**
- C. Fats, sugars, and cholesterol
- D. Water and fiber

The answer identifying proteins, carbohydrates, and fats as essential macronutrients for human health is accurate because these three components play vital roles in the body's functioning and overall well-being. Proteins are crucial for the building, repairing, and maintaining of body tissues, including muscles, organs, and enzymes. They serve as a source of amino acids, which are fundamental for synthesis of hormones and neurotransmitters. Carbohydrates are the body's primary source of energy. They are broken down into glucose, which fuels cells and is particularly important for brain function and physical activity. Fats are also an essential component, providing energy, supporting cell growth, protecting organs, and helping absorb certain nutrients. They play a critical role in hormone production and overall cellular function. In contrast, while vitamins and minerals are vital for metabolic processes and maintaining various bodily functions, they are classified as micronutrients rather than macronutrients. Fats, sugars, and cholesterol can contribute to energy intake, but sugars (especially in excess) do not have essential roles in body function like the macronutrients do. Water and fiber are important for health, but fiber is not classified as a macronutrient in the same way as proteins, carbohydrates, and fats. Thus,

## 2. What does a Low Glycemic Index (GI) represent?

- A. 65 or more
- B. 56-69
- C. 55 or less**
- D. 45 or less

A Low Glycemic Index (GI) indicates that a food or carbohydrate source has a minimal impact on blood sugar levels after consumption. Foods with a GI of 55 or less are categorized as low GI. This means they digest slowly and result in a gradual rise in blood glucose levels, which can be beneficial for maintaining energy levels, appetite control, and overall metabolic health. Low GI foods are often recommended for individuals looking to manage their weight, improve their insulin sensitivity, or control diabetes, as they help in avoiding spikes in blood sugar and reducing the risk of subsequent hunger pangs. It's important to understand the categorization of glycemic index values: foods with a high GI (typically 65 or more) can lead to rapid increases in blood glucose, while those classified as medium (between 56 and 69) sit between the two extremes. Therefore, the defining range for low GI is distinctly recognized as 55 or less.

### 3. What is a common characteristic of processed foods?

- A. They are always low in calories
- B. They often contain added sugars, unhealthy fats, and preservatives**
- C. They are typically organic
- D. They have no nutritional value

Processed foods are typically characterized by the inclusion of added ingredients that enhance flavor, extend shelf life, or modify texture. One common aspect of these foods is that they often contain added sugars, unhealthy fats, and preservatives. These additions can significantly alter the nutritional profile of the food, making it less healthy than its whole food counterparts. Added sugars are frequently included in processed foods to improve taste, while unhealthy fats may be used to enhance texture or flavor. Preservatives are included to prolong shelf life and prevent spoilage. This combination can contribute to health problems such as obesity, diabetes, and heart disease when consumed excessively. In contrast, not all processed foods have low calorie counts, and many organic foods go through some processing while maintaining their organic status. Additionally, while some processed foods may lack essential nutrients, many contain some nutritional value, making the blanket statement about having no nutritional value misleading. Hence, the characteristic of often containing added sugars, unhealthy fats, and preservatives is a defining feature of processed foods.

### 4. Which vitamin deficiency can lead to conditions affecting the skin and mucous membranes?

- A. Thiamine
- B. Vitamin B2
- C. Nicotinic acid**
- D. Pyridoxine

The correct choice is Nicotinic acid, also known as niacin (Vitamin B3), as its deficiency is linked to conditions that significantly affect the skin and mucous membranes. Specific conditions associated with niacin deficiency include pellagra, which is characterized by three main symptoms known as the "three D's": dermatitis, diarrhea, and dementia. The skin changes can manifest as a scaly, red rash, particularly in areas exposed to sunlight, highlighting the relationship between this vitamin and skin health. Thiamine (Vitamin B1), Vitamin B2 (riboflavin), and Pyridoxine (Vitamin B6) are vital for various body functions, including energy metabolism and neurotransmitter synthesis; however, their deficiencies do not typically result in the same skin and mucous membrane issues that occur with niacin deficiency. This makes Nicotinic acid the key vitamin in this context for maintaining the health of the skin and mucous membranes.

**5. What is the primary function of carbohydrates in the diet?**

- A. To provide energy**
- B. To aid in digestion**
- C. To support hormone production**
- D. To assist in fat absorption**

The primary function of carbohydrates in the diet is to provide energy. Carbohydrates are the body's main source of fuel, as they are easily converted into glucose, which is the preferred energy source for cells, particularly in the brain and during physical activity. When consumed, carbohydrates are broken down into simpler sugars that the body can utilize for immediate energy or store for later use. While other options mention important functions of different nutrients, such as aiding digestion, hormone production, and fat absorption, these roles do not primarily pertain to carbohydrates. Instead, they relate to dietary fiber, proteins, and fats, respectively. Understanding the role of carbohydrates as the body's chief energy source helps highlight their importance in a balanced diet.

**6. What is the most abundant form of thiamine found in foods?**

- A. Thiamine hydrochloride**
- B. Thiamine mononitrate**
- C. Thiamine triphosphate**
- D. Thiamine pyrophosphate**

Thiamine pyrophosphate is the most abundant form of thiamine found in foods. This active coenzyme form plays a crucial role in carbohydrate metabolism by assisting in the decarboxylation of alpha-keto acids, which is vital in processes such as the conversion of pyruvate to acetyl-CoA. In food sources, thiamine initially exists as thiamine itself, but it is primarily converted into its phosphorylated forms for storage and use. Thiamine pyrophosphate is particularly important because it is the form utilized in metabolic processes by the body, highlighting its prevalence in the food we consume. Other forms of thiamine mentioned, such as thiamine hydrochloride and thiamine mononitrate, are synthetic or supplemental forms and not typically the most abundant in natural food sources. Thiamine triphosphate is less common and is not the major form present in standard dietary sources. Thus, thiamine pyrophosphate is recognized for its significant role and abundance in the foods we eat, making it the correct answer.

## 7. Which nutrient is most important for bone health?

- A. Iron
- B. Calcium**
- C. Vitamin D
- D. Folic acid

Calcium is the most important nutrient for bone health because it plays a crucial role in building and maintaining strong bones. Approximately 99% of the calcium in the human body is stored in bones and teeth, where it provides structure and strength. Adequate calcium intake throughout life, particularly during the formative years, helps achieve peak bone mass, which is essential for preventing osteoporosis and bone fractures later in life. In addition to calcium, vitamin D also contributes to bone health by improving calcium absorption in the intestine. While it is essential, calcium is the primary component that directly strengthens the bone structure itself. Other nutrients like iron and folic acid serve critical roles in other bodily functions but do not have a direct impact on bone density and strength like calcium does. Therefore, when focusing on nutrients specifically tied to supporting and sustaining bone integrity, calcium stands out as the most vital nutrient.

## 8. What role do legumes play in nutrition?

- A. They are high in sugars
- B. They serve as a source of protein and carbohydrates**
- C. They should be avoided in all diets
- D. They contain only fats

Legumes play a significant role in nutrition primarily because they are an excellent source of both protein and carbohydrates. This makes them an important food group, especially for individuals seeking plant-based protein options. Legumes include foods such as beans, lentils, peas, and chickpeas, which are rich in protein, providing essential amino acids necessary for various bodily functions such as muscle repair and immune system support. In addition to protein, legumes are high in complex carbohydrates, which are beneficial for providing lasting energy and aiding in digestion due to their high fiber content. The fiber in legumes helps to maintain healthy digestion and can contribute to feelings of fullness, supporting weight management. Their nutritional profile also includes various vitamins and minerals, making them a valuable addition to a balanced diet. Therefore, their dual role as a source of protein and carbohydrates underscores their importance for overall health, especially in vegetarian and vegan diets, as well as for anyone looking to diversify their protein sources.

**9. What is the maximum recommended percentage of total caloric intake that should come from saturated fats?**

- A. 5%
- B. 7%
- C. 10%**
- D. 15%

The maximum recommended percentage of total caloric intake that should come from saturated fats is 10%. This guideline is based on evidence linking high saturated fat intake to increased cholesterol levels and a higher risk of cardiovascular diseases. Public health organizations, including the American Heart Association, advocate for keeping saturated fat consumption to less than 10% of total daily calories to promote heart health. While some sources may provide varying recommendations—like even lower percentages such as 5% for certain high-risk populations—10% is generally accepted as a balanced approach for the average person to maintain cardiovascular health while still allowing for some dietary flexibility. Therefore, 10% serves as a practical guideline for most individuals.

**10. Can excess protein be stored in the body?**

- A. Yes, in muscle tissue
- B. No**
- C. Yes, as fat
- D. Yes, as amino acids

The correct answer is that excess protein cannot be stored in the body as it can be for carbohydrates and fats. When dietary protein intake exceeds the body's needs for growth, maintenance, and repair, several processes occur. Protein is broken down into amino acids, which are the building blocks of proteins. If there are more amino acids available than the body needs, they cannot be stored as amino acids. Instead, the body utilizes a process called deamination where the amino group is removed, and the remaining carbon skeleton can be converted into glucose or fat. The processes involved involve energy expenditure for converting excess proteins, and ultimately, the surplus does not remain as amino acids in muscle or other tissues. This is fundamentally different from how carbohydrates can be stored as glycogen or fats as triglycerides for future energy use. While you may see references to proteins influencing muscle growth and repair, excess protein intake doesn't translate to excessive amounts being stored in muscle tissue for future use.