

ICAR AIEEA PG 2025 Community Science Question Paper With Solutions

Time Allowed :120 Minutes

Maximum Marks :480

Total questions :120

General Instructions

Read the following general instructions carefully and adhere to them strictly:

1. **Duration of the Exam:** The total duration of the examination is 2 hours and 30 minutes.
2. **Total Marks:** The question paper carries a total of 480 marks.
3. **Number of Questions:** The paper contains 120 multiple-choice questions (MCQs)
4. **Question Paper Format:**
 - All questions are compulsory unless otherwise instructed.
 - Each question has four options, out of which only one is correct.
5. **Mode of Examination:** The examination is conducted in online mode (Computer-Based Test).
6. **Marking Scheme:**
 - Each correct answer carries 4 marks.
 - 1 mark will be deducted for each incorrect answer.
 - No marks will be awarded or deducted for unattempted questions.
7. **Medium of Paper:** The question paper will be bilingual (English and Hindi), except for the language section (if applicable).
8. **Electronic Devices:** Use of calculators, mobile phones, smartwatches or any electronic gadgets is strictly prohibited.

1. Which vitamin is most susceptible to destruction during cooking?

- (A) Vitamin A
- (B) Vitamin D
- (C) Vitamin C
- (D) Vitamin K

Correct Answer: (C) Vitamin C

Solution:

Vitamin C, also known as ascorbic acid, is a water-soluble vitamin that is highly sensitive to heat, light, and oxygen. During cooking, especially boiling, a significant amount of vitamin C can be lost due to its instability. In contrast, vitamins A, D, and K are fat-soluble and more stable during cooking processes.

Quick Tip

To preserve vitamin C in foods, opt for steaming or microwaving instead of boiling, and minimize cooking time.

2. Which fiber is known for its excellent moisture-wicking properties, making it ideal for active wear?

- (A) Cotton
- (B) Wool
- (C) Polyester
- (D) Nylon

Correct Answer: (C) Polyester

Solution:

Polyester is a synthetic fiber renowned for its durability and moisture-wicking capabilities. It draws moisture away from the body, allowing it to evaporate quickly, which keeps the wearer dry and comfortable during physical activities. Cotton, while breathable, tends to retain moisture, and wool, though moisture-absorbing, can feel heavy when wet. Nylon is strong and elastic but doesn't wick moisture as effectively as polyester.

Quick Tip

For sports and active wear, polyester fabrics are preferred due to their quick-drying and moisture-wicking properties.

3. In developmental psychology, which stage is characterized by the development of object permanence?

- (A) Sensorimotor stage
- (B) Preoperational stage
- (C) Concrete operational stage
- (D) Formal operational stage

Correct Answer: (A) Sensorimotor stage

Solution:

Jean Piaget's theory of cognitive development outlines the sensorimotor stage as occurring from birth to approximately 2 years of age. During this stage, infants learn about the world through their senses and actions. A key milestone is the development of object permanence—the understanding that objects continue to exist even when they cannot be seen, heard, or touched.

Quick Tip

Remember, object permanence is a fundamental concept acquired during the sensorimotor stage of infancy.

4. Which of the following is a primary function of dietary fiber?

- (A) Provides energy
- (B) Builds muscle tissue
- (C) Aids in digestion
- (D) Enhances taste

Correct Answer: (C) Aids in digestion

Solution:

Dietary fiber, found in plant-based foods, is not digested by the human body. Instead, it adds bulk to the stool and aids in regulating bowel movements, preventing constipation. While it doesn't provide energy or build muscle tissue, it plays a crucial role in maintaining digestive health.

Quick Tip

Incorporate whole grains, fruits, and vegetables into your diet to ensure adequate fiber intake for digestive health.

5. Which of the following is an example of a fat-soluble vitamin?

- (A) Vitamin B12
- (B) Vitamin C
- (C) Vitamin D
- (D) Vitamin B6

Correct Answer: (C) Vitamin D

Solution:

Vitamins are categorized based on their solubility. Fat-soluble vitamins (A, D, E, and K) are absorbed along with dietary fats and can be stored in the body's fatty tissue. Vitamin D, in particular, is essential for calcium absorption and bone health. In contrast, vitamins B12, B6, and C are water-soluble and are not stored in significant amounts in the body.

Quick Tip

Fat-soluble vitamins can accumulate in the body; hence, excessive intake should be avoided to prevent toxicity.

6. Which method is most effective for preserving the color and nutrients of green vegetables during cooking?

- (A) Boiling with lid on
- (B) Steaming
- (C) Deep frying
- (D) Microwaving

Correct Answer: (B) Steaming

Solution:

Steaming is a gentle cooking method that uses steam to cook food, preserving the vibrant color, texture, and nutrients of vegetables. Unlike boiling, where nutrients can leach into the water, steaming minimizes nutrient loss, especially water-soluble vitamins like vitamin C and B-complex vitamins.

Quick Tip

To retain maximum nutrients in vegetables, opt for steaming over boiling or frying.

7. Which of the following is a common symptom of iron-deficiency anemia?

- (A) Jaundice
- (B) Fatigue
- (C) Hyperactivity
- (D) Weight gain

Correct Answer: (B) Fatigue

Solution:

Iron-deficiency anemia occurs when the body lacks sufficient iron to produce hemoglobin, leading to reduced oxygen transport in the blood. Common symptoms include fatigue, weakness, pale skin, and shortness of breath. Jaundice is associated with liver issues, hyperactivity is not a typical symptom, and weight gain is unrelated.

Quick Tip

Include iron-rich foods like leafy greens, legumes, and fortified cereals to prevent iron-deficiency anemia.

8. Which of the following is an example of a complete protein source?

- (A) Rice
- (B) Lentils
- (C) Eggs
- (D) Wheat

Correct Answer: (C) Eggs

Solution:

Complete proteins contain all nine essential amino acids required by the human body. Animal-based foods like eggs, meat, and dairy are complete protein sources. Plant-based foods like rice, lentils, and wheat are incomplete proteins, lacking one or more essential amino acids.

Quick Tip

Combining different plant proteins (e.g., rice and beans) can provide all essential amino acids in a vegetarian diet.

9. Which stage of Erikson's psychosocial development focuses on identity vs. role confusion?

- (A) Early childhood
- (B) Adolescence
- (C) Young adulthood
- (D) Middle adulthood

Correct Answer: (B) Adolescence

Solution:

Erik Erikson's theory of psychosocial development outlines eight stages. The fifth stage, occurring during adolescence (approximately ages 12 to 18), centers on identity vs. role confusion. During this period, individuals explore their personal identity, values, and beliefs. Successful resolution leads to a strong sense of self; failure results in confusion about one's role in society.

Quick Tip

Adolescence is a critical period for identity formation, as per Erikson's psychosocial stages.
