

## Chapter 7 : Nutrition and diet

### Question. 1. Fill in the blanks

- (1) The process of intake of food and utilizing it for all life processes is called **nutrition**.
- (2) All the substances in our food which are useful for various bodily processes are called **nutrients**.
- (3) Carbohydrates and **fat** provide **energy** to our body.
- (4) In a balanced diet, all the nutrients are present in the **adequate** proportion.
- (5) In the food pyramid, cereals are given the maximum space because they fulfill our **energy** requirements.
- (6) Intake of more food than necessary causes **obesity**.

### Question. 2. Choose the correct alternative:

- (1) Pulses are a good source of **proteins**.  
(a) carbohydrates      (b) proteins      (c) fats      (d) minerals
- (2) **Cereals** provide maximum energy to the body.  
(a) Cereals      (b) Leafy vegetables      (c) Water      (d) Amla
- (3) Goitre is caused by a deficiency of the mineral **iodine**.  
(a) iron      (b) calcium      (c) Iodine      (d) potassium
- (4) **Chocolate** is a type of junk food.  
(a) Orange      (b) Milk      (c) Bhakri      (d) Chocolate
- (5) Vitamin **K** is essential for blood clotting.  
(a) A      (b) B12      (c) E      (d) K

### Question. 3. Find the odd one out:

- (1) Vitamin A, Vitamin B, Vitamin D, Vitamin K. **Vitamin B**
- (2) Chocolates, Burger, Leafy vegetables, Noodles. **Leafy Vegetables**
- (3) Xeroderma, Rickets, Bleeding. Anaemia. **Xeroderma**
- (4) Fish, Eggs, Pulses, Cereals. **Cereals**
- (5) Iodine, Urea, Washing soda, Starch. **Urea**

### Question. 4. Match the columns:

[1] Group 'A'	Answers	Group 'B'
(1) Calcium	Strengthening the bones of the body.	(a) Speeding up the chemical reaction of the body.
(2) Sodium	Maintaining the water balance.	(b) Carrying oxygen to all body cells.
(3) Iodine	Speeding up the chemical reaction of the body.	(c) Strengthening the bones of the body.
(4) Iron	Carrying oxygen to all body cells.	(d) Maintaining the water balance.

[2] Vitamin	Source	Functions
(1) B1	(a) Amla	(m) Formation of collagen
(2) B9	(b) Nuts	(n) Formation of red blood cells
(3) B12	(c) Meat	(o) Growth of the body
(4) C	(d) Kiwi	(p) Working of the heart

**Answer:**

- (1) B1 - Nuts - Working of the heart  
 (2) B9 - Kiwi - Growth of the body  
 (3) B12 - Meat - Formation of red blood cells  
 (4) C - Amla - Formation of collagen

**Question. 5. Spot the following in the table of vitamins and minerals:**

- (1) The nutrient present in citrus fruits. Vitamin C  
 (2) Vitamins/minerals present in milk. Minerals: calcium and phosphorus; Vitamin: A, B, D  
 (3) Causes and symptoms of night blindness, scurvy, rickets, beriberi.

Ans	Cause	Symptom
<b>Night blindness</b>	Deficiency of Vitamin A	Inability to see in dim light
<b>Scurvy</b>	Deficiency of Vitamin C	Bleeding gums
<b>Rickets</b>	Deficiency of Vitamin D	Softening of bones, causing pain and fractures.
<b>Beriberi</b>	Deficiency of Vitamin B1	Nerve disorder

**(4) Foods required to prevent the above diseases.**

**Answer.**

**Night blindness:** Red and yellow vegetables and fruits, leafy vegetables, milk, butter

**Scurvy:** Citrus fruits, cabbage, tomatoes, green leafy vegetables.

**Rickets:** Sun bath, milk, fish, eggs and butter.

**Beriberi:** Milk, fish, meat, cereals, nuts, pulses.

**(5) Causes of anaemia:** Deficiency of iron and Vitamin B12

**(6) Essential minerals for healthy bones and teeth.** Calcium and Phosphorus

**(7) Sensory organ affected due to the deficiency of Vitamin A.** Eyes

**Question. 6. Answer the following questions:**

**(1) What is the use of food for living things?**

**Answer.** Food is essential for living things because it provides energy for daily activities and survival. It supplies nutrients needed for growth and repairing cells. Food also helps strengthen the immune system to fight diseases. Overall, it contributes to the development and well-being of organisms.

**(2) What is kilocalories? How many kilocalories do you require per day?**

**Answer.** Kilocalories (kcal) are a unit of energy used to measure the energy content in food and the energy expenditure of living organisms. Growing children like us need about 2000 to 2500 kilocalories of energy per day.

**(3) What are probiotics? In what form do we take it in our diet?**

**Answer.** Probiotics are live microorganisms that provide health benefits when consumed, often by improving gut health and digestion. They can be found in foods like yogurt, buttermilk, curd, kefir, sauerkraut, and other fermented products, as well as in dietary supplements.

**(4) What is the significance of the balanced diet?**

**Answer.** A balanced diet is important because it provides the nutrients needed for good health. It helps maintain a healthy weight, supports growth, boosts the immune system, and lowers the risk of chronic diseases.

**(5) What is junk food? What happens if we take excess of junk food?**

**Answer.** Junk food refers to unhealthy foods that are high in calories, sugars, fats, and salt but low in nutritional value. Eating too much junk food can lead to weight gain, obesity, and various health issues, such as heart disease, diabetes, and digestive problems.

**(6) How to avoid obesity?**

**Answer.** To avoid obesity, maintain a balanced diet rich in fruits, vegetables, whole grains, and lean proteins while limiting processed foods and sugary drinks. Regular physical activity, such as exercising for at least 150 minutes a week, and staying mindful of portion sizes also help in managing weight.