## Revision Notes CHAPTER – 2

## **Components of Food**

- **Nutrients:** Food substances that provide nourishemt to the body.
- The major nutrients in our food are carbohydrates, proteins, fats, vitamins and minerals. In addition, food also contains dietary fibres and water.
- Carbohydrates and fats mainly provide energy to our body.
- Carbohydrates: cellulose, starch and sugar.
- **Carbohydrates:** These are energy-giving compounds. There may be simple carbohydrates or complex carbohydrates.
- Sources of fats: animal fats and vegetable fats.
- **Fats:** These are very high energy-giving compounds compounds. They produce greater amount of energy than carbohydrates.
- Carbohydrates and fats are Energy giving food.
- **Minerals:** These are elements required by the body in small amounts. It is essential for growth and development of bones, teeth and red blood cells.
- **Proteins:** These are body-building foods. They help in growth of the body.
- Vitamins: These are organic substances that protect the body from diseases.
- **Roughage:** It is the dietary fibre present in the food. It facilitates regular movement of the bowels and prevents constipation.
- Dietary fibre and water are not food.
- **Balanced diet:** It provides all the nutrients that our body needs, in right quantities, along with adequate amount of roughage and water.
- **Deficiency Diseases:** These are the diseases cause due to the lack of required nutrients for a long period in the diet.
- **malnutrition**: when a person eats enough of food but his diet is unbalanced, it is known as malnutrition.
- **Undernutrition**: A person not eating sufficient food to maintain good health is suffering from undernutrition.

## Some Nutrients Deficiency Diseases are:

- 1. **Protein: Kwashiorkar** Stunted growth, thinning of legs, protruding belly.
- 2. **Protein and Carbohydrates Marasmus –** Complete/partial arrest of growth, lack of energy.
- 3. Vitamin D and calcium: Rickets Bowed legs, bent spine, deofmed bones are joints.
- 4. Vitamin C: Scurvy Bleeding and swelling of gums, weakness.
- 5. **Iodine: Goitre** Enlargement of thyroid gland, retarded growth.
- 6. **Iron Anaemia** Fatigue, loss of appetite, pale skin.
- 7. **Vitamin K:-Bleeding disease-** delay in blood clotting leads to excess bleeding.
- 8. **Beri-beri**: Vitamin  $B_1$  weakness in muscles, little energy to do work, paralysis
- 9. **Night blindness Vitamin A** No vision at night or in dim light.