SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES



Coimbatore -641035

COURSE NAME: SOCIAL AND PREVENTIVE PHARMACY (BP 802T)

IV YEAR / VIII SEM

TOPIC: CONCEPT OF HEALTH (UNIT I)

SUB TOPIC: CONCEPT OF HEALTH AND DISEASE & HYGIENE &

HEALTH, SOCIAL AND HEALTH EDUCATION



WHAT IS HEALTH?

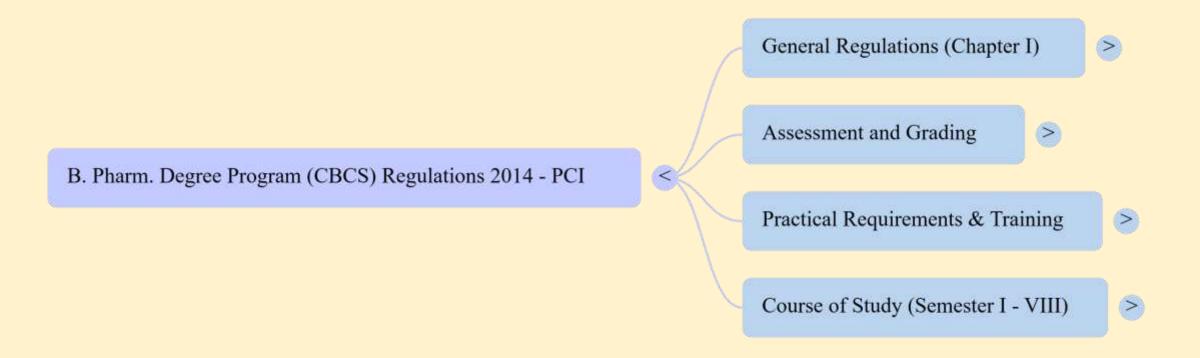
➤ "A state of complete physical, mental and social well-being and not merely the absence of disease or infirmity"

(World Health Organization, 1948)

"The extent to which an individual or group is able to realize aspirations and satisfy needs and to change or cope with the environment."

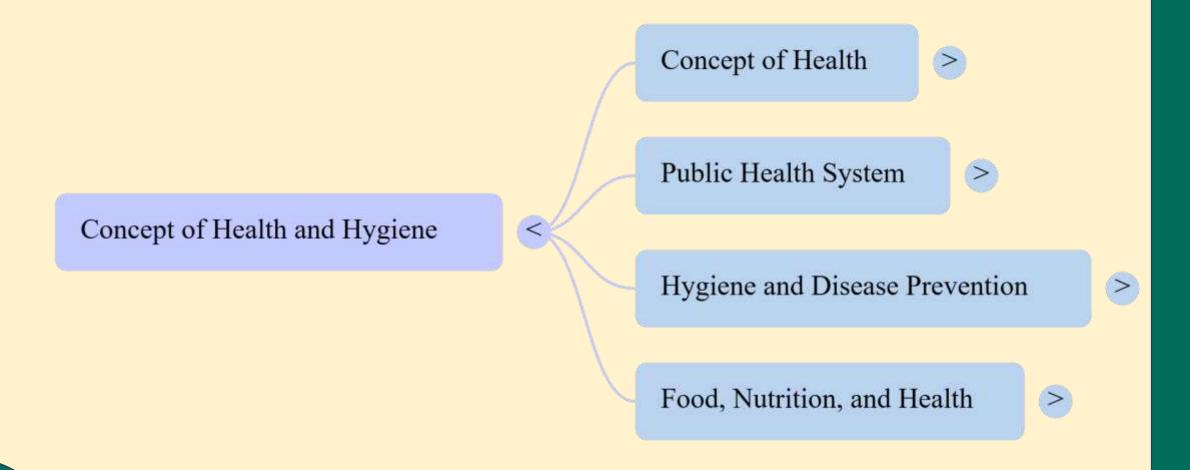
(World Health Organization, 1984)



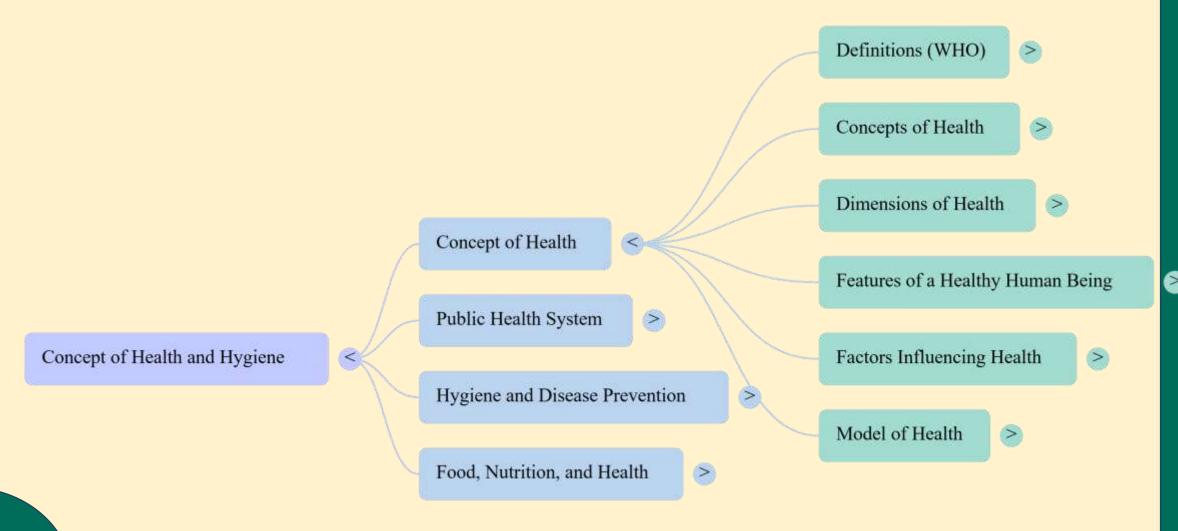


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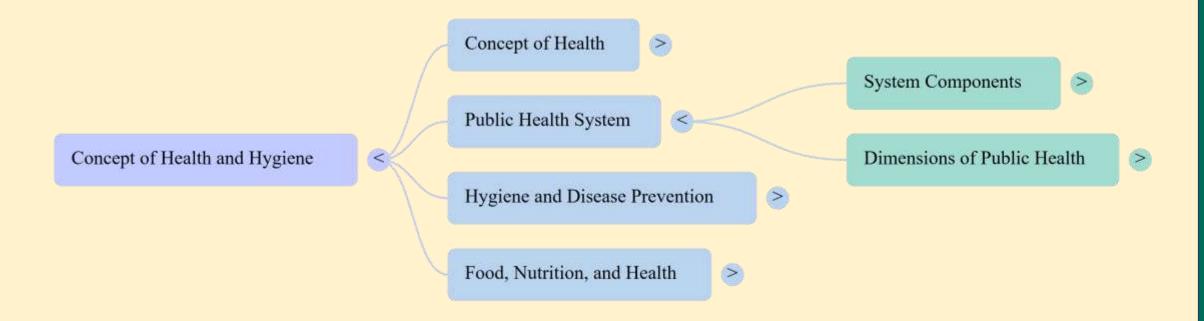




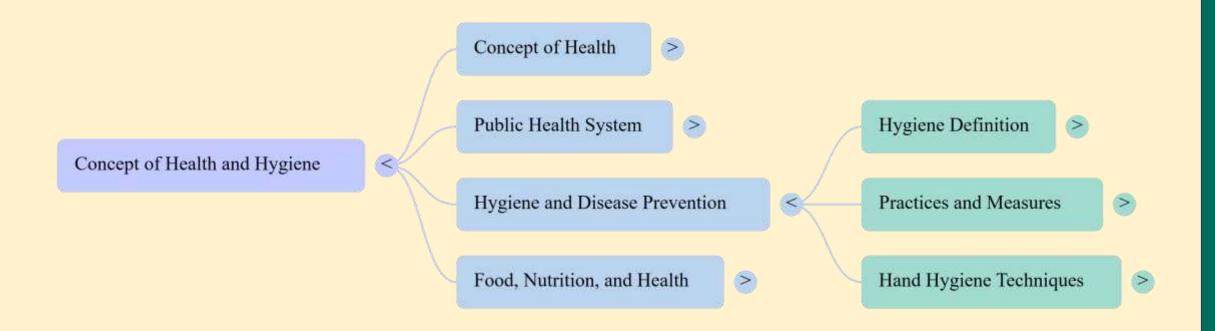




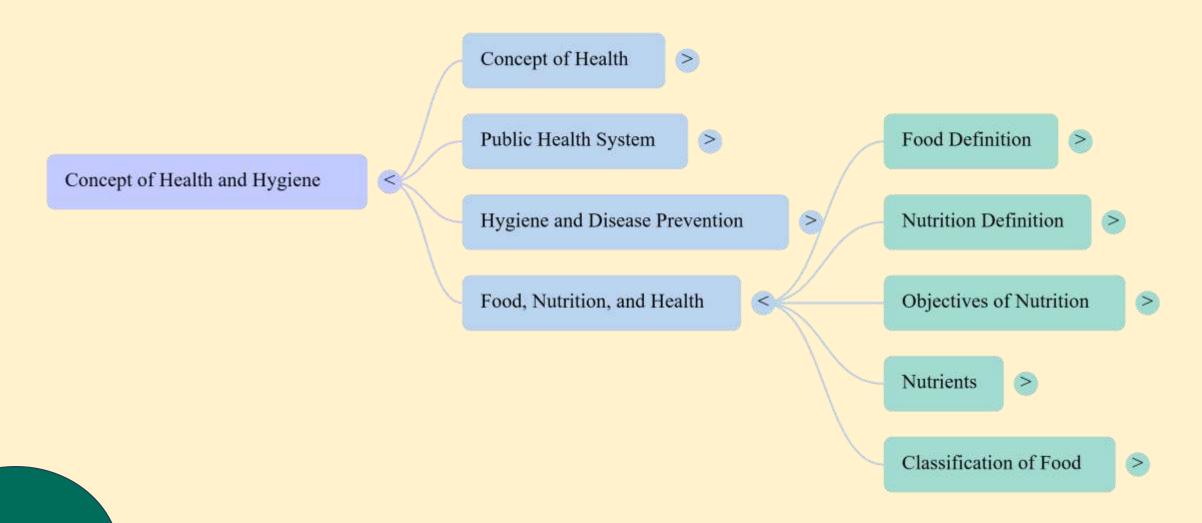


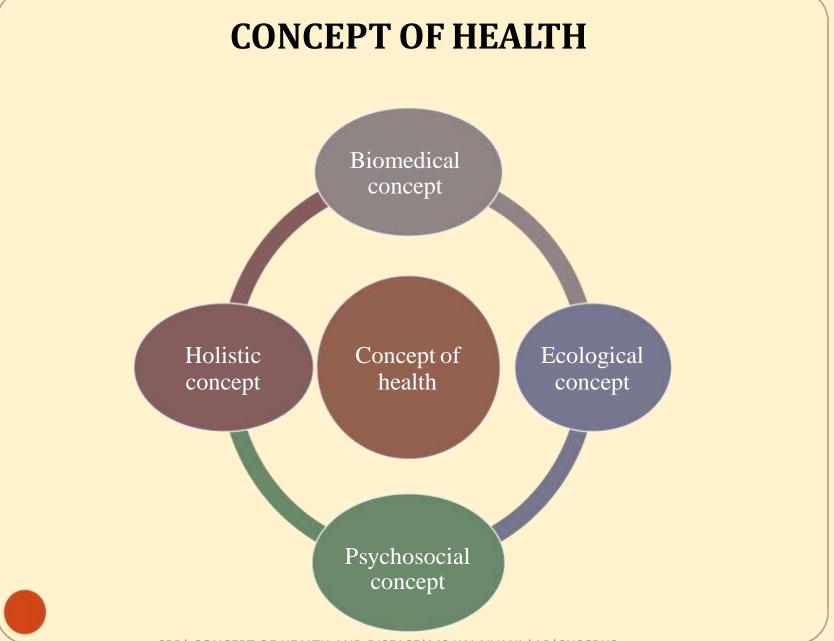










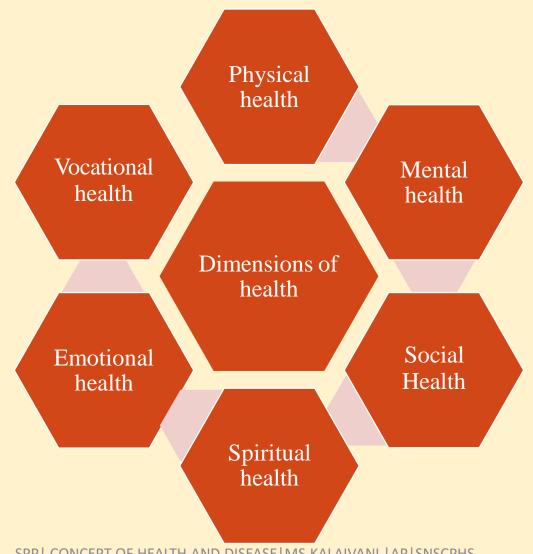




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Dimensions of health





Dimensions of health



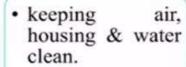
Every cell & organ in the body is functioning at optimum capacity & in harmony with the rest of other organs.

Physical health



 Sound relationships with friends, family & the community as a whole.

Social health



 Safe food & safe waste disposal.

Environmental health



- Job should be safe for health
- Comprises aspects of wellness that help achieve a balance between work & leisure.

Occupational health



 Express emotions in a positive, nondestructive way

Emotional health



- Maintaining relationships with other living things
- Having spiritual direction & purpose.
- Living according to one's ethics, morals, & values.

Spiritual health



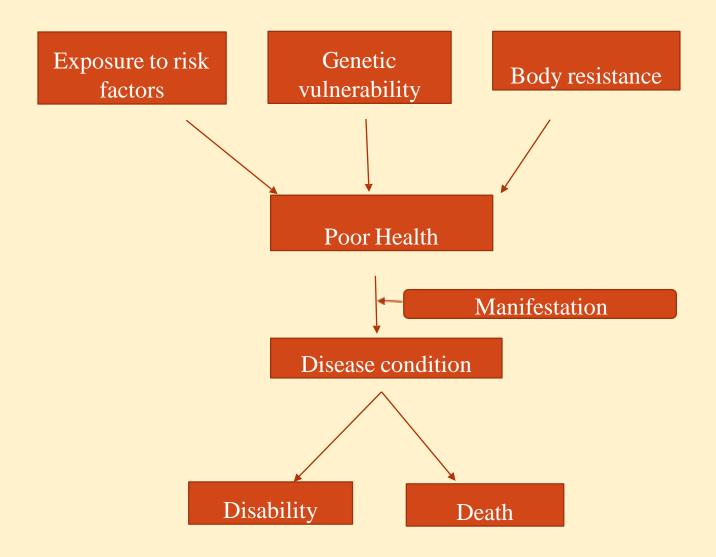
- Ability to recognize reality & cope with the demands of daily life.
- Sound thinking, taking decision, self esteem & dealing with conflicts.

Mental health



A MODEL OF HEALTH





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FACTORS INFLUNCING HEALTH AND WELL BEING

Social and economic factors (40%)

Health behavior (30%)

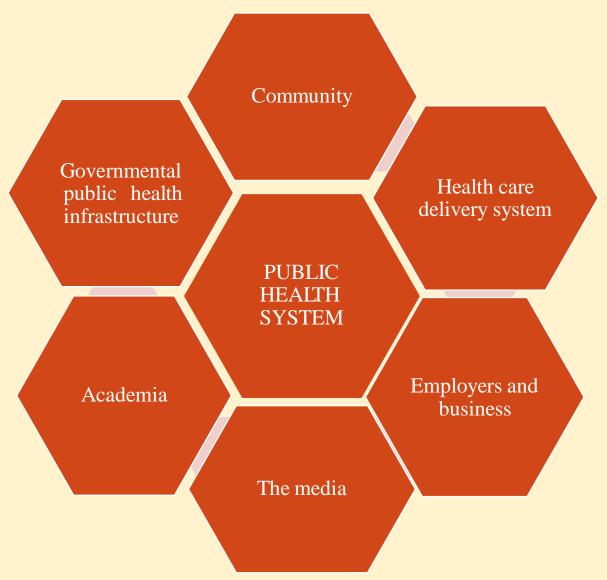
Clinical care (10%)

Physical environment (10%)

Genes and biology(10%)

PUBLIC HEALTH SYSTEM





Dimensions of public health





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Items	Community medicine	Clinical medicine
Objective	To prevent diseases	To cure diseases
Customers	Population or all community (healthy and diseased)	Individual patients (diseased only)
Tools of diagnosis	Epidemiological & Statistical studies	History, clinical exam, & investigations.
Management	Community health programs	Medical/surgical treatment
Evaluation	Assessment of health programs & health status of a community by calculation of rates.	Follow up of patients
Branches	Epidemiology, statistics, nutrition, health services & management	Pediatrics, gynecology, general medicine, surgery



HYGIENE AND HEALTH

- ☐ Health is defined as a state of complete physical, mental and social-being and not merely an absence of disease or infirmity.
- Physical health and mental health are interrelated. A sound mind in a sound body is an old and appropriate saying for good health.





A healthy human being has generally the following features

- ☐ A clear skin
- ☐ Bright, clear eyes
- ☐ A body neither too fat nor too thin
- ☐ Fresh breath
- Good appetite, Regular activity of bladder and bowels
- ☐ Sound sleep
- Coordinated body movements





1. HYGIENE

Hygiene refers to conditions and practices that help to maintain health and prevent the spread of diseases. Medical hygiene therefore includes a specific set of practices associated with this preservation of health.

2. PUBLIC HYGIENE

Sewage and chemical wastes should not be released into the water bodies. Sewage should be chemically treated first before being released into the water bodies to avoid water- borne diseases.

3. IMMUNIZATION

Immunization and vaccination can prevent infectious diseases.

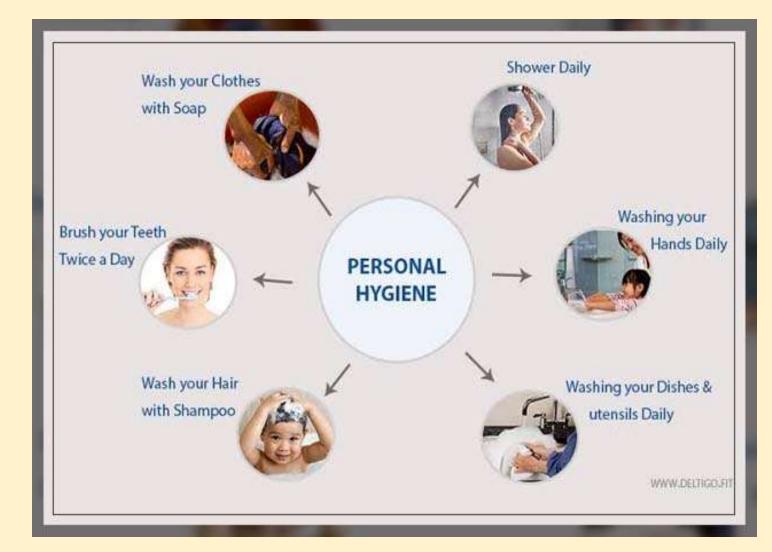






4. Personal hygiene

- Hand washing
- Careful dental care
- Bathing
- Put on clean clothes.





5. Healthy environment

- ➤ Garbage in covered bins
- Proper water treatment or disposal
- > Covered drains
- Proper sewer lines connected to sewage treatment plants.
- > Use of latrines and urinals
- Maintain a healthy environment to prevent the spreading of diseases due to the breeding of mosquitoes, house flies and microorganisms.





- ➤ Garbage should be kept in covered bins so that flies do not breed on them.
- ➤ Do not allow water to stagnate outside your house and in your neighborhood.
- ➤ All drains should also becovered. This will avoid breeding of mosquitoes.
- ➤ There should be proper sewer lines connected to sewage treatment plants.
- Contamination of drinking water with a little amount of feces (human excreta) causes a number of diseases.



GOOD HYGIENE HABITS





Oral Hygiene



Bathing Ritual



Hair Care



Foot Hygiene





Hand Hygiene



Home Hygiene

Coughing and Sneezing Hygiene

Toileting Hygiene



FOOD IN RELATION TO NUTRITION AND HEALTH

FOOD

- Food is any edible material that supports growth, repair and maintenance of the body.
- Any edible substance that we consume to fulfill our daily requirement of nutrition is known as food.

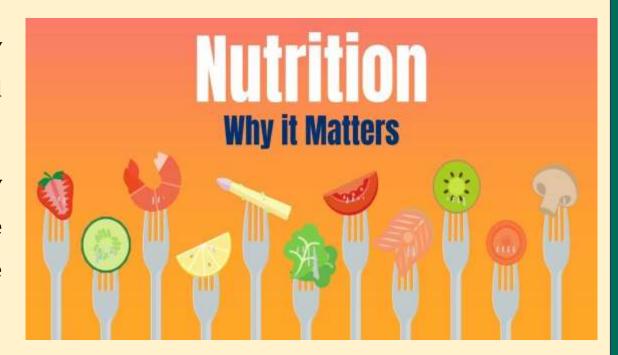




FOOD IN RELATION TO NUTRITION AND HEALTH

NUTRITION

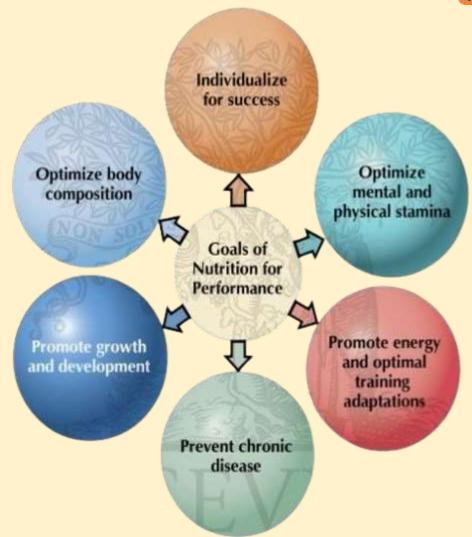
- Nutrition is the process by which body utilizes food for growth and maintenance and healthy living.
- Nutrition is the combination of processes by which the living organism receives & uses the food materials necessary for growth, maintenance of functions & repair of component parts.





Objectives of nutrition

- ☐ To promote the physical and mental growth and development of human beings
- Building and repairing of tissues and cell damaged by infection and injuries.
- ☐ To provide energy for doing works.
- To protect the human beings from infections and deficiency disorders.





Classification of Foods

By chemical nature	Carbohydrates, Protien, Fats, vitamins, Minerals, Dietary fiber, Water	
By functions in the body	Energy Giving Body Buidling Protective	
By chemical properties	Organic Inorganic	
By mass	Macro Nutrients Micro Nutrients	
By Origin	Plant Foods Animal Foods	
By nutiritve value	12 Categories	

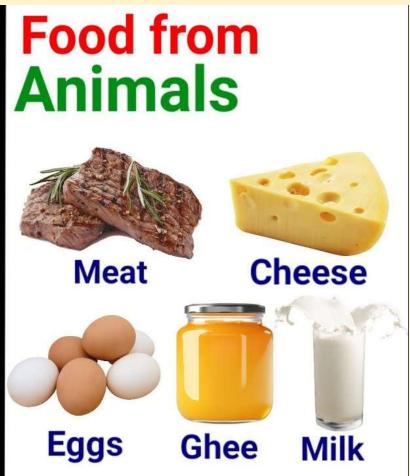


Classification of food

Classification of foods by origin

- ➤ Foods of plants origin
- ➤ Foods of animal origin



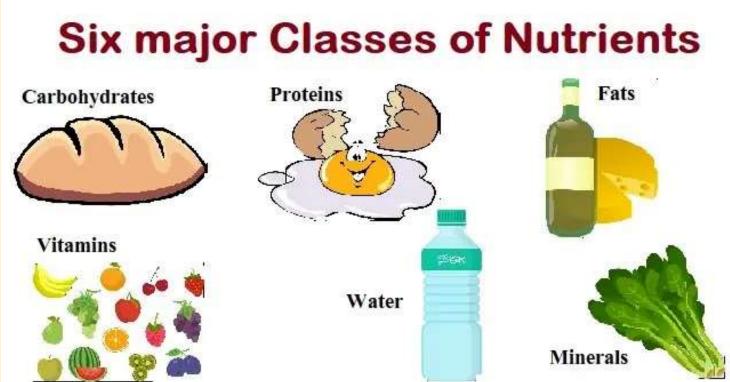




Classification of food

Classification of foods by chemicals

- Carbohydrates
- ☐ Proteins
- ☐ Fats
- ☐ Vitamins
- → Minerals

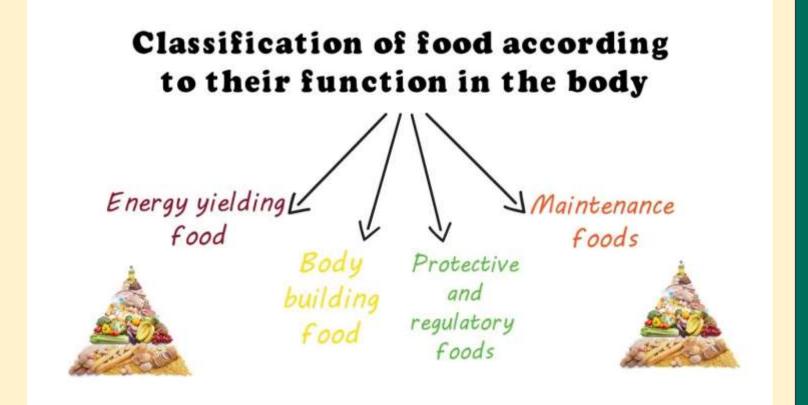




Classification of food

Classification of foods by **Predominant Functions**:

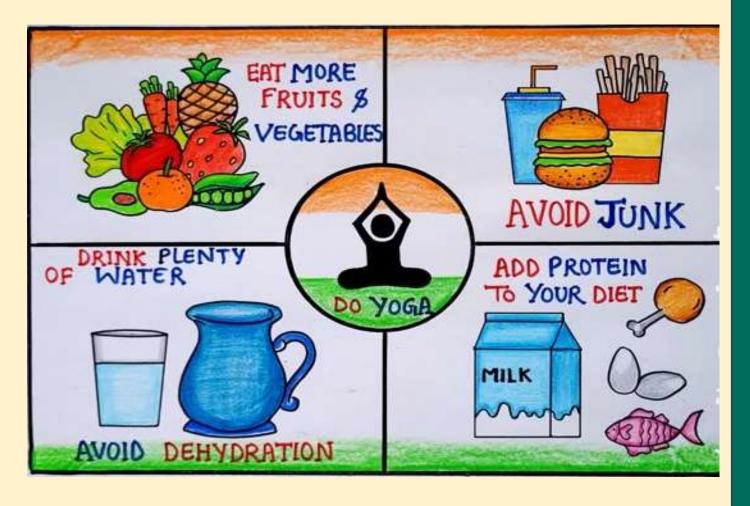
- Energy supplying food: Cereals, sugars, roots, tubers, fats and oils.
- Body building foods: Milk, meat, poultry, eggs, fish, pulses and groundnuts.
- ☐ Repairing and Maintenance Foods: Vegetables, Fruits and Milk.





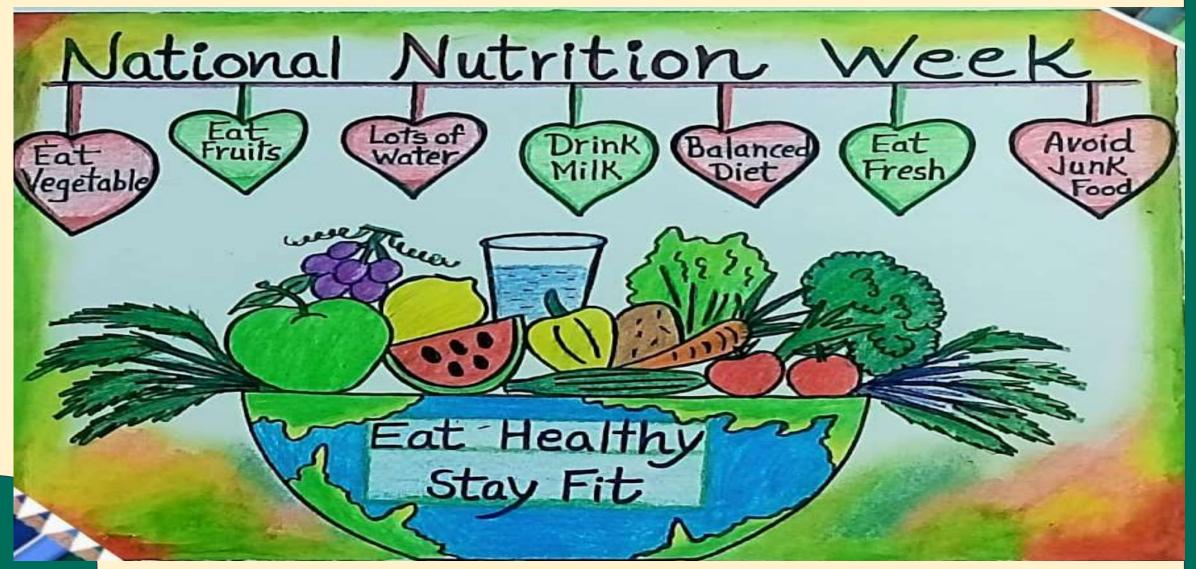
NUTRIENTS

- Organic and inorganic complexes contained in food are called as nutrients.
- We Useful chemical substances derived from food by the body are called nutrients.
- Nutrient provides energy, helps to grow well and normal development and repair of tissues.
- 50 different nutrients supplied by foods to our body.
- Each nutrient has its own specific function.
- Most of the foods contain more than one nutrient.



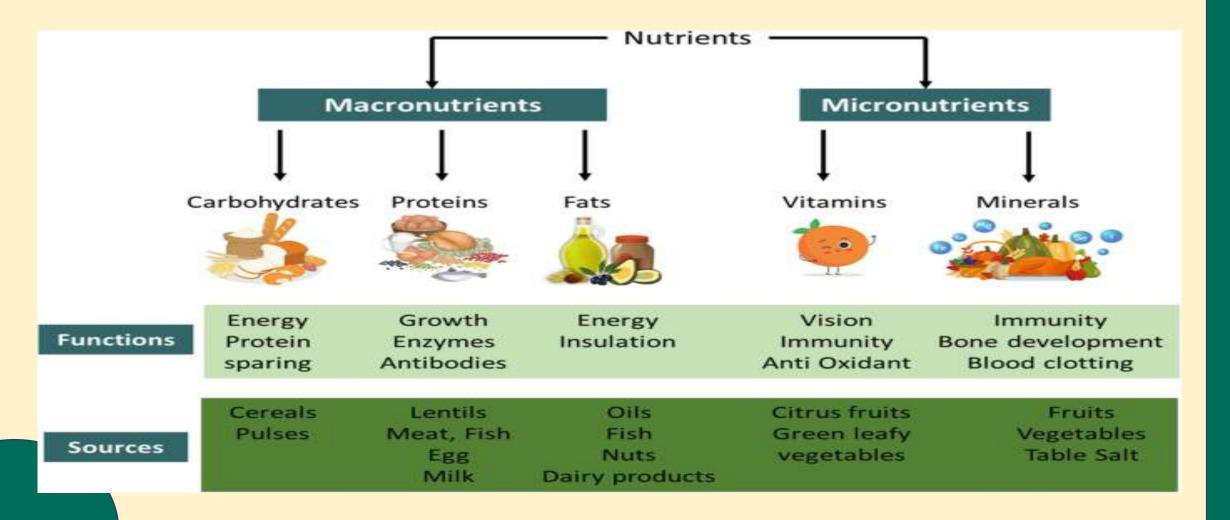
NUTRIENTS







CLASSIFICATION OF NUTRIENTS

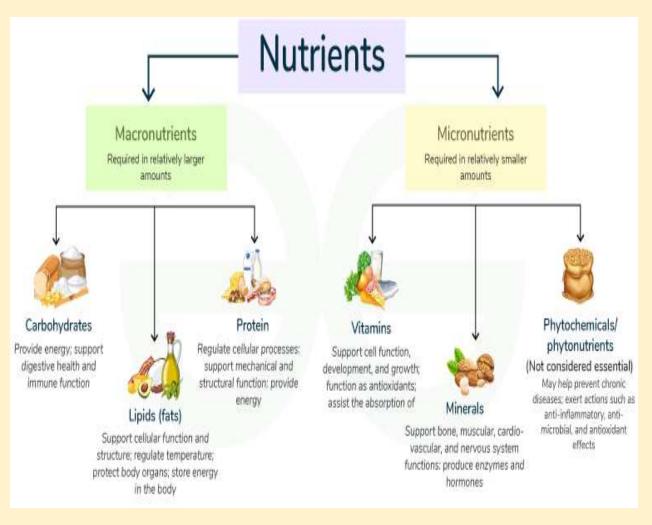




CLASSIFICATION OF NUTRIENTS

Nutrients are divided into two parts mainly as Macro-nutrients and Micronutrients.

- Macronutrients are proteins, fats and carbohydrates which are often called "Proximate Principles" because they form the main bulk of food.
 - ✓ They contribute to the total energy intake
 as
 - ☐ Carbohydrates 60-80 %
 - ☐ Fats 10 30 %
 - ☐ Proteins 7-15 %
- Micronutrients are requires in small quantity and they are vitamins and minerals. The quantity of nutrients required depends upon age, sex, weight, physical activity and health status of the body.





CARBOHYDRATES





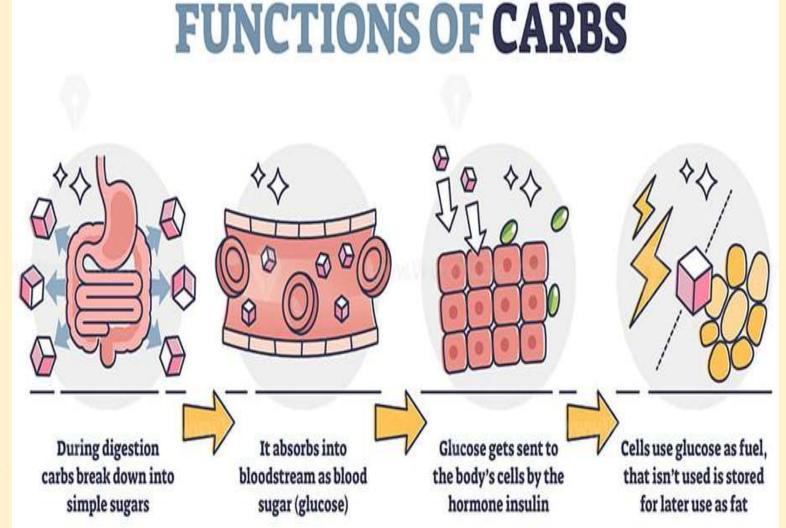
CARBOHYDRATES



- Carbohydrates provides energy 4 Kcal/gm
- ☐ In balanced diet, carbohydrates provide 50-60% of total calories taken.
- In excess, the carbohydrates are converted into body fat.

Functions:

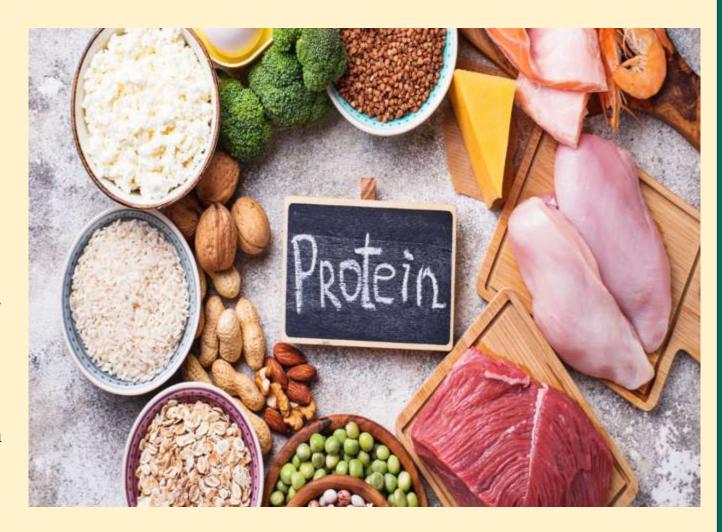
- Energy production in the body;
- Useful in Oxidation of Fat.
- Useful in growth of good bacteria.
- Useful in the synthesis of VitaminB complex: absorption of minerals & prevention of constipation



SIS

PROTEINS

- Protein is the building material for all body parts, such as muscle, brain, blood, skin, hair, nails, bones and body fluids.
- Protein constitutes 20% of adult body weight and made up of amino acids. Functions
- Acts as Building blocks of cells and tissues.
- * Regulates hemoglobin.
- * Regulates muscle contraction, formation of enzyme, hormones and other secretions which help synthesis of enzymes and produces digestive juices and antibodies.
- ❖ Act as a source of energy: 1 gm of protein gives 4 kcal.





SOURCES OF PROTEIN

- ☐ There are 2 main sources of protein.
 - Animal sources:
 Milk, eggs, meat,
 fish, cheese etc.
 - Plant sources:Pulses, cereals,beans. nuts, soyabean etc.

PLANT BASED PROTEIN

ANIMAL BASED PROTEIN

PROTEIN PER 100G





FATS



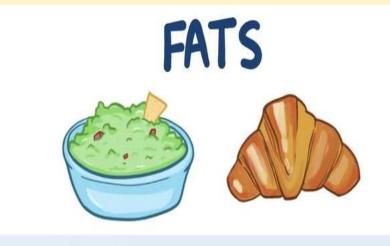
- Fats are composed of smaller units called fatty acids.
- Saturated fatty acids: All animal fats except fish oil.
- Saturated fatty acids are cholesterologenic, i.e. They increase cholesterol level.
- Unsaturated fatty acids: All vegetable oils except coconut and palm oils.





Functions:

- ☐ Fats provide energy: 1 gram of fat provides 9 calories of energy.
- ☐ Dietary fats supplies essential fatty acids needed for growth and maintenance of the integrity of the skin.
- ☐ They maintain our body temperature.
- ☐ Fats provide support for man organs in our body such as heart, kidneys, intestine etc.



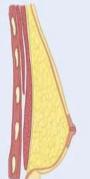
MAJOR SOURCE of ENERGY





CONVERTED into OTHER MOLECULES







e.g. PROSTAGLANDINS



GOOD VS BAD FATS

@DAVEYMAHER_FITNESS





AVOCADO





NUT BUTTER



SALMON



CHIA SEEDS

FLAXSEEDS



FULL FAT GREEK YOGURT



DARK CHOCOLATE WHOLE EGGS





REPLACE BAD FATS WITH GOOD ONES







(for sauteing)







Butter (for baking)







Steak





Salmon



Ground Beef







Nuts

Tofu



