CS CamScanner

Keep the description under the headings brief



Also add the sources separately

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		food or energy storage They are composed of
		hundreds or thousands of monosaccharide units
		linked together to form a long molecule.
		Starch, glycogen and cell lose are polysaccharides,
		or complex carbohyd tes, made up of numerous.
		glucose molecul The glucose molecules are linked.
		in different ways, giving rise to different
		structures with different chemical and biological.
		properties. Starch is a storage form of
		carbohydrates in plants and is the most
		important source of carbohydrates in the
		human diet. Glycogen, also called animal
		starch, is the storag form of corbohydrates
,		in animals. Cellulose is the structural component
	- 5	of plant cell walls.
)	PROTEINS
		Definition: Proteins are organic molecules made
		up of carbon, hydrogen, orygen and nitrogen.
		All elements, such as phosphorus, sulphur,
		iron, copper, indine and zine may also be
		A molecule is built up from
		simpler compounds known as amino acids linked
		· Simple
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together by peptide bonds. An amino acid is made up of an amino group (-NH), an acidic group (-COOH) a side chain (denoted by D). D R). R may sometimes contain sulphur, acidic groups, amino groups, and or hydrongle groups in place of one or more hydrogen atoms. The general formula of an amoracid is: R (side chain) NH2 - CH - COOH amino group acid group Characteristics: Proteins are the polymers of amino acids. They are colourless and tasteless. The solubility of proteins depends on the pH, that is, solubility increases with the increase in acidity or alkalinity. Moreover, proteins are high molecular weight biomole cules. There are 10,000 different kinds of proteins in human socly. There are twenty different naturally occurring amino acids that are combined in various ways to form millions of different 3-D shaped protein molecules. Proteins contain the elements

Mon Tue Wed Thu Fri Sat Sun carbon, hydrogen, oxygen and nitrogen. They may also contain phosphorus, iron, capper, iodine, sulphur and zinc. sulphur and zinc. Classification of Proteins:
On the basis of physical-chemical properties: (i) Simple proteins: Simple proteins are made up of only one type of amino acid as their structural component. They are mostly globular type of proteins. They are the most abundant protein in animal kingdom. Examples include albumin, globulin, collage (ii) Compound or Conjugated Proteins:

They are the proteins which are attached to some non-protein groups (prosthetic groups). For example, phospho-protein, lipo-protein, etc. (iii) Derived Proteins:

Derived proteins re derived from simple or conjugated proteins from the action of heat, enzyme a chemical agents. Examples include preteoses, enzyme peptones, oligo peptides

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	On the basis of the structure:
(i	Primary Proteins:
	Primary proteins consist of the chain of
	amino acids forming a linear structure. The
	amino acids are linked up by peptide
	bonds to form a polyptide chain.
	Son as to form a polypoticie crissin
(ii	Secondary Proteins
	The linear, infolded structure of
	polypepticle chain assumes helical shape to
	produce the secondary structure. The
	secondary structure refers to the regular
	folding pattern of twists and bends of
	the polypeptide chain.
(iii)	Tertiary Proteins:
	Tertiary structure of proteins is the
	three dimensional structure formed by the
	bending and twisting of
	bending and twisting of the polypeptide
	chain. The linear sequence of polypeptide chain
	is folded into compact globular structure
	in such proteins.
	Proteins can be found in both plant
	and animal toods such as mill account
	seafond, meat, soya beens, nuts, grains, vegetables
	Vegetables
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Date etc. Proteins are vital for the growth, development and proper functioning of the body as they are involved in the synthesis of new protoplasm, the grath and repair of worn-out body cells, and the synthesis of enzymes, hormones and antibodies to combat diseases. Definition: Fats are organic compounds containing the elements carbon, hydrogen and oxygen.

But inlike carbohydrates, fats contain much less oxygen in proportion la hydrogen. Primary building bleks of fats are fatty acids and glycerol. In other words, fats can be broken down into fatty acids and glyceral by the process of hydrolysis.

Hydrolysis involve the addition of water

molecules and occurs readily with an enzyme:

Fat molecule + Water enzyme Glyceral + fatty acid

molecules Characteristics: Fats are the most heterogenous group of substances. They are insoluble in water but are soluble in organic solvents like ether,

alcohol, chloroform, benzene, etc. They are poor conductors of heat and electricity. Fats not only occupy the plan in human diet, but are also used as raw materials in the manufacturing of soaps, detergents, varnishes, paints, polishes, cosmetics and pharmaceuticals. Classification of Fats:

Fats can be classified into saturated Saturated Fats and transfats.

Saturated Fats:

The bonds between carbon atoms in saturated fats are single bonds. There is no double bond. The fatty acid chain is straight. The sources of saturated fats include animal products (meat, butter, cheese) and some plant oil (coconut oil, palm oil). Saturated fats in raise LDL cholesteral levels in the body, potentially increasing the rick of heart disease. • Unsaturated Fats:
Unsaturated fats can further be divided into two types:

(i) Monounsaturated Fats:

Their carbon chain contains only one