Assignment No:01 Carbohydeates: Caebohydeale all alganic compound made up of carbon, Hydrogen and oxygen. The ratio of 1 caebon, 2 Hydrogen and 1 oxygen its chemical Formula is (CH2O)- calbetydeale all use as a energy resource and Storage. So. of carbon on earth are present in caerbohydeale form. Classification of castohydeall Monosacchaeide: Monosacchaeide all simplest form of carbohydeale they are made up of less carbon. dia sacchaeide and polysacchaeide all made up of monosacchaeide. They are divided on the bases of nomber of carbon? for e.g 3 caerbon sugar > Triose formula, C3H603 5 caerbon sugar > pentose (-F) (5H1005 6 caerbon sugar > Lexose (-F) (6H1206 (i) nivcose: Groupse and Surctose have same Chemical Formal but differ in structure because In glucose presentan aldose group-glucose is also known as blood sugar. They all pedent in e.g bread, pasta and fevit. (ii) Fructose commenty found in Fruits and honey. The volic of Fructose (1:1 glucose + Fructose) and 30%. Sweeter than successe. It is metabolized in liver and provide energy fructore concentration increase it convert in to glucose. They are present in e.g. Roftdeink and Fruitdeink. Disacchaeide: when two monosacchaeides all combine with gly cosidic bond all called disacchalide and thespercell occur due to glycosidic bond called hydeation process. They play an important role in diet. Disacchaeide and know monosacchaeide all Soluble in

(11 Lactose Lglucose + galactose): Lactose all found in daily products like miller Cheese, vouguet-lactose is an enzyme convert lactore to mono sacchalide if convergion not occur lactore intélérance. (iii) Sucrose (glucose + Fructose): Sucrose is also known as table sugar and sugarceme. succose break down into monosacchaeide Eand its provide energy. (lii) Maltose (glucose + glucose): maltose is formed during the digestion all also found in plant spearting seeds. Polysacchalide:

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when multiply monosacchalide all combine theough glycosidic bond all called polysacchalide. (i) Starch:

Storch all present in plant. Storch all complex compound and its breakdown convert in to glucose unit. glucose cellale used an energy source. e.g. Amylose, Amylopectin.

- (ii) galycogen:
  - Olyocogen is also Known as animal Stach and it storage energy in the glycogen form. glycogen are highly present in liver and muscles.
- celulose: ( ((i))

cellulose all polysacchalide it provide

## rigidity to plant cell wall. They help to move tood in small interstine.

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Proteins: Protein word is derived from "Proteios" means Prime importance ou fist Ramk TE is composed of Citio and N elements. It is an abundant organic compound of cell and 50% day weight of cellis composed by protein. Chalacteristics of proteins poymer of amino acids. Currino acids combine and make covient bond are called peptide bond matte Chain like Steveture could protein) colorles and tasteless. · Solubility depends on pH. (acidity is directly proportional to solubility)

· High molecular protein. 10,000 différent plotein. Main elements CIHIOIN allo contain Pifei Cui Ii Sizn Classification of proteins Based on physical and chamical properities Simple proteins: one type of amino acids all called Simple protein e.g. Albumin, globulin, Collagen. compound protein or conjugated protein: Protein attach to non-protein group are called compound peotein e.g phospho peotein and Decived protein:

Derived protein from simple or conjugated protein and we process by heat, enzyme or chemical agents. e. J proteoses, peptones, digo peptides.

## LIPIDS: Lipids word deeived From "Lipos" means Fat. Lipids all made up of these component fatty acid, Glycerol and Sterols. Lipide are a diverse group ot organic molecules that are hydrophobic and due to hydeophobic nature they are insoluble in water Chalacteristics of lipids

- · Heterogenous group of substances.
- · in soluble in water.
- · soluble in organic substances like ether, alcohol.
- · Poor conductor of heat and electricity.
- · Ruman pourt of human diet.

· used as now material in manufacturing of soap, de tergents, paints, patishes, cosmetics étc. classification of lipids Simple lipids: simple lipids are composed of fally and and glycerole. g fat and oil, Triglycerids etc. Compound lipids: compound lipids all made up of fally acids glycecol, phosphate e. ¿ phospholipids, Glycolipids etc. derived lipids They derived From simple and compound lipide all called derived lipide e.g. Steeride, wax etc.

Mention the full qs statement for proper evaluation. Without that these are just notes and cannot be awarded marks