Day: (Assignment H1) Date:
(General science and Ability)
Name: DANISH AMIN Mention the full qs
Batch: 56 statement for proper
evaluation. Without that
1- Carbohydrales: these are just notes and
-> carbohydraies are de Cannot be awarded marks
(with many OH) aldehydes or Ketones, or
Complex substances which yield Polyhydroxy
aldehyde or kee subunits on hydrolysis.
aldehyde or kti. subunits on hydrolysis. Their general formula is $C_{\chi}(H_{\chi}o)_{\chi}$.
Classification:
(A) Monosaccharides:
1- They are Simple Sugars.
2. They are sweet in tolte.
3- They are easily soluble in water.
4- All carbon atoms except one carbon in
a monosacularide have hydroxyl group. The carbon
without OH group froms aldehyde or ketone group.
5- They cannot be hydrogyzed into simple
Sugars
Example: Glucose (hexose Sugar)
(B) Oligosaccharides:
1- These are Comparatively less sweet in toste.
Also draw the structures

2- These are less soluble in water. 3- They yield 2 to lo monosacchosides on hydrolysis. 4- oligosaccharides which give two monosaccharides on hydrelysis called disacherides. 5- oligosacchorides which give three monosaccharides on hydrolysis called toisaccharides. Examples: Sucrose, maltose, laccose elc. (C) PolySaccharides: 1- They are tasteless. 2- They are hardly soluble in water. 3- They are usually oranched or unbronched. 4- Several massacchorides Dinked by glycosidic linkage and form Polysaccharides. 5. They have high molecular weight. Examples: Glycogen, Starch Glycogen: 1- 9t is also Called animal starch. a- 9t is a Chief storage compound of animals. 3- 9+ gives red Colour will indine. cellulose: 1- 9+ is the most abundant Carbohydrate in nature. 2- Cotton is pure form of cellulose. 3- It is main constituents of cell wall of Plants.

Leave line space between headings for neatness



Carbon from C, to C35), alcohols, Ketones, and estors of long chain fatty acids. In Plants: They form Protective coating on fouits and leaves waxes Protect Plants from water loss. In animals: Some insects secrete waxes. They also Provide water barrier in insects, birds exc (C) Phospholipids: -> Phospholipids are derivative of Phosphatidic acid Nitrogen bases like choline, ethanolomine and serine are important component of phospholipids. Phosphatidy (choline is the most common PhosPholipid. - Polar (hydrophilic) region - Phosphoure convaintly region Phos Pholipid - Non-Polar (hydrophobic) region-fatat acids (D) Terpenoids: > Texpenoids are made up of the simple repeating units of isoppenoid. This unit undergoes condensation by different words and form different Compounds. Examples: Carotenoids, steroids, Texpenes ete

3-Proteins: Definition: 2--> Proteins are Polymors of amino acids containing Carbon, nitrogen, oxygen and hydrogen. The number of Amino auds is different in different Proteins. It may be from a few to 3000 or more Amino acids: -> All amino acids have an amino group (NH,) and a carboxyl group (cooH), at Toched To the same carbon atom, also known as alpha Carbon. - COOH (CORDOXY) HOOD) (Amino) HN Alpha Coobon Some impostant functions of Proteins: 1- They build many structures of cells like cell membrane. 2-All enzymes are Protein in nature. These enzymes control the metabolism of cell. 3-Hormones are also Procein in nature. 4-Some Proceins are coved antibodies. Antibodies defend the book against Pathofens.