NAME AND ADDRESS OF THE OWNER, WHEN	
vy:	M. Momin Abbas - OB-56 Date: 11
	General Science
	Assignment 1
0	Explain the classifications of carbohydrates, proteins, and fats with their definitions and examples.
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•	Carbohydrates: Such nutrients which are composed of sugar,
	starch, and fibers are considered carbohydrations. On a chem-
	in I have the service by corbon bydomen and oxygen.
	-ical level, these are made by carbon, hydrogen, and oxygen.
	These nutrients provide energy for cells, bues, and organs.
	Crise vantables wilk and pulses are common scrices of
	Circins, vegetables, milk, and pulses are common sources of carbohydrates. Gren ral formula for carbohydrate is C (40)
	carsonydrates. Sient the formula for the strigger to the
	Carbohydrates are classified into two groups: simple and
	complexe.
	a. Simple Carbohydrates: These carbohydrates have lower
	degree of polymerization, i.e. they have fewer sugar or
	saccharide molecules. Oft, they have lower nutricular
	value or calories.
	yaque or caronos.
	They are further caterinal as Pollation
	They are further categorised as following:
	i. Monosaccharides e.g., galactore, fructore, glucore, and etc. These are carbohydrate monomer.
	are ell. mest are carbonyaran monomer.

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	ii. Disacharides are made of two monosachirides e.g.
	Sucrose, lactose, and maltose.
1	iii. Oligosaccharioles are made of upt two and more
	mono saccharines og., hexoses.
o comment and the	The second secon
	b. Complex Carbohydrates: Also known as polysaccharides, these carbohydrates have higher degree of polymerisation. It
	takes time to breakdown them. Usually found in lentils,
	potatoes, and peas.
	Such polysaccharides are found as starch, glycogen,
	and fiber (cellulose). Starch is composed of amyose in
	amyloceptin. Whereas, fiber is a structural component
	for cell wall.
•	Proteins: These are large molecular nutrients made up of
	amino acids. Chemically, it is consisting carbon, hydro-
	gen, nitrogen, oxygen, and sulphur Suel nutrients play a rate
	to diem collular communication, and molecular recognition
	ion. Further on, it plays a significant role as hormones and enzymes.
	enzymes.
	Meat, fish, eggs, dairy products, and lestils are sources for protein.
	for protein.
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Proteins are classified upon the formation of amino oxids. Following are its classifications:
1. Primary: A sequence of amine acids
2. Secondary: Formed when and acid sequence is shaped three dimensionally; e.g. keratin.
3. Tertiary. More stabilised version of secondary via bonding or disulphide bridges; e.g. globulins.
4. Quarternary. It is the assembly of multiple protein struct- ures (above); e.g., hemoglobin and insulin.
However, there is another classifiction of proteins which is based upon its function:
1. Enzymes: They are specialised as catalyst for digestion of food; e.g. catalese
2. Structural Proteins: They protect and strengthen biologi- -cal struction e.g. Keratin.
3. Carrier Proteins: They trasport ions and molecules in the body; e.g., haemoglobin.
4. Nutrient and Storage: They provide nutrition and storage for ions.
(D.: \

Lipids are often found in butter. If cheese and etc. Lipids are classified interthree: i. Saturated fat: These are solid at room temperature generally found in meat, milk, and cheese are fats are those changed by hydrogenation i.e., increase in its shelf-life and hard at room temperature in processed food and margarine.	Day:		Date: / /
Lipids are classified into three: i. Saturated fat: These are solid at room temperature generally found in meat, milk, and chees generally found in meat, milk, and chees in Transfat: These fats are those changed by hydrogenation i.e., increase in its shelf-life and hard at room temperature found in processed food and margarine. iii. Unsaturated fat: Such fat are liquid at room temperature found in oils from plants. Moreone saturated fat lowers chalestrol. Found in avecada Polysatured fats are flee found in sesame and coin oil. Attempt and upload proper		iñ.	Lipids. Colloquially known as fats and oils, Lipids are organic molecules. They are rich in energy and insoluble in wester. They play an important role in formation of cell membrane.
i.e., increase in its shelf-life and hard at room temp Found in processed food and margarine. iii. Unsaturated fat. Such fat are liquid at room temp -peratural found in oils from plants. Mone -saturated fat lowers chalestrol. Found in avecado Poly- satured fats are fla found in sesame and com oil. Attempt and upload proper			Lipids are often found in butter. ", cheese and etc.
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Attempt and upload proper			i. Transfat: These fats are those changed by hydrogenation i.e., increase in its shelf-life and hard at room temp. Found in processed food and margarine.
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