RBOHIORATES living organisms Siological process raracteristic Enomples saccharidesz ormula

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	CoH, Do for hexases like glucase
	Solubility = Highly soluble in
13.15	Solubility Highly soluble in
	Taste Generally Sweet.
11	
1	Energy Source Directly used
	in cellular servication
,	Energy Source Directly used in cellular respiration o Examples
	Chicose The amos 4 evenous
	Glucose The Camary energy source for cells
	Fructose Fund in fruits
1	and hangue Known like it
	and honey; Known for its
	Galactose A component of
	Pactose, found in milk
	Journal M. Miles
	2 Disaccharides
	a Definition Formand by the
	O Definition Formed by the combination of Two monoscacharides
5)	Through a alycoridical bound
ÿ.	Through a glycosidic bound. Characteristic
	Chemical formula C12 H12 O11.
	C12 1/12 V11.
	Solubility Soluble in water.
	Jonnes in water.

Taste Generally sweet. Hydralysis Can be broken in into monosaccharides. Examples Sucrose Common table sugar composed of glucos and actose suctoso. Lactose Te sugar found in milk, composed of glucose and galactose.

Maltose Formed from (sugar) Two glucose molecules; found in loods. 3- Polysacc Harisles Definition Complex carbohydrais composed of long chains of monoaccharine unit o Characteristics: Chemical formula (CoHyo Os)n where in the number of repeating units Subility Generally isoluble or soluble in water. Taste West.

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~~	
Date:	

	Furction Energy storage or
	Function Energy storage or structural support
	o Examples
	Storch A storage lim
	of alucuse in almit lound
	in look like solutions seen
	Starch A storage form of glucose in plant, found in foods like potatoes, sice, and coops
	glycogean A storage form of glucose in animals, stored in the liver and muscles.
	Sin The lives and merricales
	Collulose a st. t. le
	Cellulose A structural component
-	of plant cell was providing
	Chefe
	Chiting found in the exo-
	skeletons of arthropools and
	the cell walls of funge
· · · · · · · · · · · · · · · · · · ·	Talle of the same
	Jefiniuon of
- / <u>1</u>	Raterial
	TROLLUTIO
	Proteins are large, complex
	molecules composed of amino acids arranged in a linear
	molecules composed of amino acids arranged in a linear
-	

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chain and folded into a tree-dimensional structure. They are essential macronolecules in al living organisms, playing a crucial sor in nearly every biological process. Types of proteins, Their Characteristic and Examples tructural Proteins o Characteristics provide support and shape to cells and tissus. Example. Collagen Found in connective Tissues like skin, tendons, and bones providing strength and elasticity Keratin Found in hair, nails, and the over layer of skin providing protection and structural integrity. o Enzymatic proteins

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characteristic Act as caldysts to accelerate biochemical reactions without being consumed Exampleso sreaks down starch Amylase in the digestive system. Palymerase Catalyses the of DNA during cell synthesis reblication. ransport Proteins membranes o Examples Hemoglobin Transports oxygen in the (body) blood rom the lungs ions and molecules our cell membrance Signaling Proteins Characteristics involved in communication between cells

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regulation of biological Examples Insulin Regulates blood glucose levels by facilitating cellular uptake. Youth Hormone Stimulates growth, cell reproduction, and regeneration Characteristics Protect the body from pathogens Intilanties Produc Immune system neutralize pathogens Fibrinogen Plays a role in clothing, helping to prevent excessive Seeding. orage proleins o charactristics stores

	later use.
	· Examples
	Ferritin Stores iron in
	the liver and releases it
	when needed
	Casein milk protein
	that supplies essential amino
	acid to infants.
	Definition of Fats
-	
	Fats, or lipids are a diverse
	group of hydropholic organic
	group of hydropholic organic
	carbon, hydrogen, and organ. They
telement of	are a major source of energy
	and are imparent for cell
-	membrane structure and
Harris San Control	signaling.
	Types of tats ther Charac-
	Teristic and Examples
27	Saturated Fats

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Characteristics Have no double bonds between carbon atoms, liquid at soon temperature, found in vegetable sils, mits, Monounsaurated Fats One Polyunstunted Fats More one double bond. o Examples: monginsatusated Fish Oil Rice in polyunsaturated fat like onega. Trans Fats o Characterístics Unsaturated at that have been hydrogenated to make them more solid associated with negative lealth effects o Examples Margarine Often contains

Fried Fast Food. Can be
high in trans fats due
to hyptrogenated oil!
o Essential Fatty Acids.
o Characteristics Required by
o Characteristics Required for health but connot be synth
esized by the body must be
obtained from the diet.
esized by the body, must to obtained from the cliet. • Evamples:
Omega-3 fally Acids: Found
in fish , flanseeds, and walnut
Omega-6 Fally Acids Found
in vegetabable oils and nuts

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