

Contributed by Saima

	=> lat is not a polymer. Not a macromolecules Just a big molecule.
Day / Date	=> polyuneroride, poly peplice and DNA /RNA are polymens.
	-> carbohydrater contain a single repeating shownit the grucose
	» protion have 20 suburilly
	Biological Molecules
	Single unit " Monomer -> Polymen in bigger Ring
	in macro molecule
	micromolecule polyneiudisy macromolecule synihesic/ condensedion/
	· · · · · · · · · · · · · · · · · · ·
	hydroysis/lue need water)
·	decomposition
<b></b>	break dan
	example of monomer
givenes fuctore	3 - glueose , carbonydrak / poly sacéride
galaciae	3 - glucose ; carbony drate / poly salestat
12	0 <- AA protien / polypeplide
- waste	altrenal + lipids / fats / triglyceride
guanine	
eytosine	5 < nucleotides , DNA/RNA
Tyamin	
	carbohydrates
	с, н, о.
	2 hydrated compound of carbon
	3 monomer glucase
	$\frac{1}{3} \rightarrow \frac{16}{13} \text{ kJ}$
	Classification
	4
	Monosacconide polysacchride
	Monosauside Disauside Disauside Disauside Contra Co
Shevere 26. Isuga 30	GHO (HO) (CHO) (CHO)
isomers	gluese, fructore, source, index, source, index, givegen
	<u>(cHO)</u> <u>(CHO)</u> <u>gluese</u> , fructore, <u>sucrose</u> , <u>mattore</u> , <u>(CHO)</u> ,

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	Pentose DNA -> depuysibo ugas	make	
	J SRNA - Ribare sugar	DUA ERNA	
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		have blue callebulate	
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	i melabolism		
	4 c y 3 c rept int	and ale chalosynthetic	
	Glucose		605
	Sweet in late.		
2	small molecly dissolve in water can easily diffustes		
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ч	used during rep. during resp. by metochondra		
~	ence control 10/1 - )		
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	straight chain structures	0	
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	dissachilder Freed of - H		
	he have to const 1	H - C - OH	
	Straight. chain into 4 - 64_04	a	
		04 - 6 -11	
	cyclic For this pupper - C- OH	3	
	Le bring G near (6) (H, OH G joins with Go Ouygen		
	C, joins with Cs ourgen	4- C - 04	
	becomes a part of straight chain		
	ring C, moves strudure 1/ guille	- L - OH	
	as a side branch	1	
		( H, 01-1	
	/	ζ.,	Sajie
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y / Date	
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te	
	Monomer + learn only or & B
	fructione CGH12O2
	CHOHO CHOH + bolh have 6 carbon
	+ both have 6 carbon 
	3
	H OH not need H.
	CHOII he just needs
	galactose the location the location of C - 0 off 1 04
	alons H adopter diff
	H 011
	+ fructose has a pentagonal dructure while galactose has heurogonal structure
	* In frudose : Ougen is presen blu , c & c. In galadose
	il is present blue 5C. g.C. = fructase has 2 side branches whills galaciese has
	one side branch
	Sajid

0 • Day / Date Q Disacchrides CH, OH 6 CH,OH Maltze d => Ś 4 glucase OH OH gluxe 1 .0 3 2 OH OH 011 OH CH,OH CH,OH ۱ C O 11 0 OH OH 11 ۱ 04 0 OH C C C C 3 5 1 011 OH 1 \* glycosidic -0bond ( (linkage 1,4 coralent bond condensation reaction 1 1 1 1 d'glucke frictise »Suciose CH,OH CHOH 0 . O.H year die 1 OH -Inkage OH OH H OH C A Corala 3 OH ) con dousation 24 6 CH,OH OH CH, OH , CHLOH Ò 0 \* C 2 C HO 4 OH 1 · OH 3-C С C C 4 İ Ľ Sajid OH OH

Lactore galadose & glucose ł CHOH CHON 0 OH 01 C 5 12 1200 C 4 C rotation OH ÓH 1 OH OH C C 3 OH OH î CHOH OH 0 3 ١ OH C H,O + C 4 OH 0 OH С OH 3.4 2 OH HOH 6 linkage ٠ 1, 4 . PONOT FORGET WATER 1 up 1:1 here on'i uas sucrose non reducing Sajid

	Keducing	
	Sucrose	2
	gluesse	
	galacine (1, 4 linhage) (1, 5 linhage)	
	malloxe	
	lactore	
	deougribase	
	libse	
æ		ove
		1.010
	when added in Benedict solution (cu <sup>2+</sup> SO,) -> So Reducing sugar give 1e <sup>-</sup> to Cu <sup>2+</sup> SO V	SILOR
	Reducing suppr give let to Cut So	
	$c_{\mu}^{\dagger} SO_{\mu} \rightarrow c_{\mu}^{\dagger \dagger} SO_{\mu} (imduble)$	
	J	
	Coloured ppt appear	
	rest results b g y o r	
	increasing conce	
		Sajid

CH2Pn (v; c) 2 (v; c) 2 Sucrese non-reducing result for benedict's fest blue Convert sucrose into glucose à fructose via is adding enzyme (sucrase) and water -> the benedict's test ii) add few drops of dilute HCl + heal + cool+ hen add few drops of alkali to -> the benedict's test neutralize thribana Solution green X test , colour change some sample to brick after hydrolysis red what was solution X? millure of reducing E non-radueing sugar C Han On +starch + glycogen Poly sacchride n  $\frac{C_{nL}(H_{L}O)_{log}}{(C_{6}H_{10}O_{5})_{n}}$ \* cellulose (CH, O) Sajid

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ate		2	
	Slauch	glycogen	cellulose
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	~ glucose	· a gluesse	· B gluxe
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	plants	animals	1111
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	Character	cells	
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	anylopeplin anylopeplin	toops & helice
	man in the	1
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	· un branched · branched	
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	· chain so long loops and • no loops n	o helices
	helices develop in it	
Q	give differences b/w anylose & anylo-pectin	
	common:	
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	-> 1,4 12nhage -> both are star -> made up of de glueste -> both can	be separated
	> polymers	_
	born are found in plas celly	
	-> gyresidie bonds -> covalend bonding	
	-> covalend bonding	
	•	Sajid

tery isles i lit 22 راشان شي فرنا Day / Date 66 Gycogen gluose d ¢ highly branched anylo peetin 6 modified 1 form reserved food for ø liver anima 2 muscled • 1,4 glycaidic 1.6 -Shor ter choin 170 • 1,6 1,6 Q differences\_ 147 Dim any apectia glyeogen Give E - glycogen has more branches dants amploppedin ?n anylopedin C 3 glycogen -> depi indep: 35 6 • -> onglose ?s dep: only anjore antice loops & helices -> hey + one bro 1/22 Jacobo blw 0 b/4 amplase gyeogen sta -> omilose ger chain > animal the apple - regulage in dine 501 -> slach has 1 lycogen compo plats aglace sigline test Šajid in 57

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	why short & glycogen are reserved food	
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	in water inert can be easily	
	covers lever + + + hydrodysed	
	space : so donot donot with enzymes	
	effect interfere v	
	osmotic press, with other however enzyme	
	of cell chem: reace diff: to bread	
1	ly band & as we know	
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	Cellulare	
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	structural component; makes cell wall	
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-		
-	hydrogen bonding blw chains 011	
	61	
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	C C C C C	
	· OH ( C C O	
	OH (MARINE)	
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	~	Saji

. Day / Date CH, OH 3 0 2 P C С 9 3 C 0 P P 6 CH, OH glycosidic 1,4 0 0 0 9 needed and 0 water molecules How OR ( produced how nonomers CH, OH 6 CH, OH Q С i. 6 С 4 ОН ... ОН CH,OH OH OH. CH,OH ... Single cellilose fibre ٩ contains many microfibres (10) . 4 Single microfible contain 60 - 70 beta quere running chains of lenste stereth sajid ging porallel to each other - tightly packed



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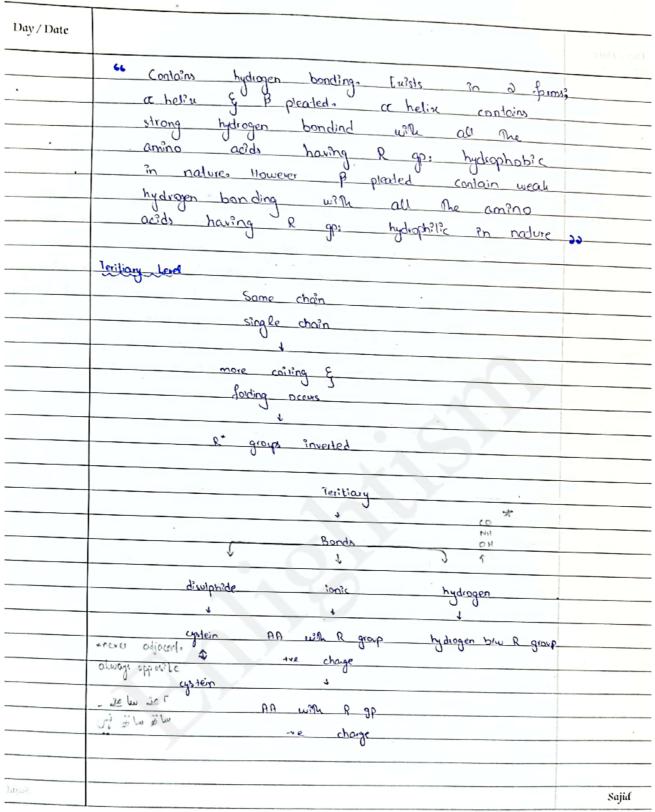
	P s insolvae in mitach andrig
Q	Give diff b/w
a)	<del>a guesse &amp; Bruclose</del> .
	- Androse has pertagonal shape - 0 blw 6 & 6 in Aruchale
b,	<u>a gluesse &amp; galaetre</u>
	-> C E C OH group public
C)	B glucose & fructose
	> perlaganal > 2 g s C b/w O

disulphide level bounds 2nd Sep'2019 hydrogen Day / Date 1724 621 : Prolens physiphale head Components C, H, O; N, S ٩. Monomer AR 3 proprotopid 20 Types of mononer 20 3 10m -> 17/18 KJ Y Structure of 2 single AA 5. ally group (CH2) (CH)/ (CH3) 2 R â (Basic) ~ NH - C - COOH ~ (audic) 2 H malin glularic acid m replaced by avoid Q prolier in diff AA group varies CH Valiner CH, group (allyle) contain always . 2 CH3 2 neutral however of there Inoraci AA 2 group 30 charge 3 2 charged (means NA may chaged/ be AA becomes group) of f basis uncharged ne 3 3 On the basis of R group AA can be r 3 1 hydrophabic hydrophilic Uprov co S ! 2 3 water repelling / water insoluble water laing water soluble 9 hydrophobic 3 non-Polar eng i cyst ein Polar 2 2 groups , aline (in joigi) Rgians Sajid alcoholic 3 metriaine 0,/s Benene ring LOOH OH NH 11 midiophile

4 . Grueption on. worker Thed keck 1 2002 6 glycine 0 H 0 NH С COOH 0 ١ 0 ٢ H 0 1 0 R No group 0 Smallet AA natital; acidid; alkaline can behave as tased . not 0 AA & grap 32 are means basis 2 6.1 2 --10 -NH C C 00 H 0 omino carboingtic acid group group cystein + glycine -> dipeptide fimila HS dipeptides glycine - cystein 1 2 -> dipoptide ۱. R H-> (B) CH, - COOH + NH 111 - COOH 2 ١ 110 L (gyrine (cystein) HS ١ pepide bond lamae Bn CH, н H \ 0 - 1- CO - NII - C - COOH С NH + 4 -0-4 C - N 1 ۱ н peplide bond + H20 Sajid

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	1 peplide bondes 9.9	
	HS I CH <sub>2</sub> H	
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	H	
	cytiein 1 glycine → HS	
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	dipeptide	
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		Sajid
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	2. develops in ER
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-	nature. R gp also develops t
	hydrogen bonding weak bonding
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The second	NH - C - COOH bond like peptide
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8th Sept 19	Tuesday
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envine OH of prol:	100
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haemoglobio	
v Contains 4 polypeplides (quartnery)	
2) 200 & 2 P (2 genes)	Fe <sup>24</sup> can
bind with 1 mol of 02	
$4Fe^{24} + O_2 \rightarrow 4 \text{ mol: } 4O_2 / 8 \text{ adomy } 4$	Saj

Day / Date each RBC conteins 1 million molecules of 4) haemoglabin -> each haemoglabin can bind with 4 molecules of 0, -> we can imagine amount of RBC carried by 1 RBC Fet binds with O reversibly 51 Hb + 40 -> 2460 (onybaemoglobin) haeroglobin a bigger ball with hydrophilic enterior and hydrophobic interior. (which does not allow H.O. 6) to enter in) -> having 30 precise shape +globubi \* metabolically adive \* functional \* H, O SOLUDIE 4 Sickle cell anemia. - Genetic dissider parents normal but carriers of gene priental gerolypes Hb" Hbs KHb" Hbs (helaronygous V hetroge allepting genolypes HEN HEN HEN HEN HEN HES HES HES V necessive normal RBC - biconcare disc shape homozygovs having sichte cell " gere mublion i.e Thalagemia normal OA on suface glutanic acid (phillic) Sajid replaced by Valine (probic). - haemogrowin & RBC constructed

reduces for carrying O2. SA 

Day / Date			Dev Date
	hormoglobin_normal_	sichte cell anemia	
			-
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V	, î		2
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3 nucleolides	fit	7	protien
J da		ingle band substitution (c	(Pull 2)
	G CE	IT code for valine 2 59	Probic (
1 anino acid	6	hydrophobic R group 6	
			valline + H20
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		carrying espa	ily effected
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<u>م</u>	Collagen		
	· 3 polypeptides (save ty		
	· 1 gene involved in	pt's maling	
2	· Primary level	· all AA are hydrophobic in	nature
	2 2 3	Ŭ	
	$\langle \rangle \langle$		
Sajid	pepti de		· Saj

Day / Date · Secondary · terition level to assessessesses E. Disulphide (no ionic E. Since hydrophobic E. are unchanged) C are urchaged) C . E -> hydrogen C a interaction hydrophobic V 3 hel? a C cyllein AD will -> phobic many helices 0 in large arounds be 2 ARE AA · avartnerry · well develope level 00 collagen molecule V H bond H disulphide phobic interaction 0 3 AA glycene / smaller size · collagen is a -01 5 structural protien found betave in bones 6 teen, 5 ortery lining knot 0 6 C bond develops blu the open ends 6 6 6 0 Ell blu fibrois & globula Ĉ, ¢ -> fibrous only has phobic, globular has both 6 -> febrors doesn't chage structure according to medium -- fibrors are strictural, metabolically madin, water multiple > fibrore have no power bounds Sajid 🚶

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	tion 2	
Day / Date		Day / Date
0	Grie diff b/w cellulare & collagen	
2 map 4	- police has so monorer, cellubre 1	
		ndlees
> both studies	> cellubre is a carbohydiate -> collage intains > cellubre in plants sectleme has merofibres	
- portr an	o no anino acido in cellubre,	
polynes	e collision male coll well, colleger hoves, lecth &	conterio
> both have	function of protion = one has guyens siddle bonds but peptide =>N2 & S	me ha ,
4 bonding	peptide >N2 & S	
	" Myodobin -> carries O / augen reserve	
~ ~ caralad by	les haemoglobin - transfers O sagle polyacplide	
C, H, O	3) enzyme -> metabolically derive more polypoplide - ADA 4) howmones -> metabolically active - ingle polypoplide - ADA 5) antibody -> defensive protien	
	s) antibody -> defensive protiet	
A Kablin		
> in hair	2) storage protien → Caesin in milk + Albumen of eage 2) storage protien → Caesin in milk + Albumen of eage 2) contractile protien → muscle → myosin 2) contractile protien → muscle → adin	
	2 contractine prome adin	
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e Q	A polypeptide contains a kind of AA XY	
	how may	
a)	dipeptides (4) XX YY XY XX	
🤌 <u>b</u> ,	Inpeptides can be made you you and see	
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2	how may (polypeptides n) can be made	
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	+ 340 1	.(
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	contains 3 OH gp, no C=C. Makagen	
aler.	en e	
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Date		Dev / Date
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	20 bead	
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	tails - trydromaction chains / fatly acid chain	
	hydrophobic non-polar uncharged water insoluble H. Ore	pelling
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	und 1	001
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Sajid .		Sajid

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	LE POOL	
	summere ad unsaturated tatle increases and in	_
	summers, proportion of saturated tails will increase to make the membrane rigid or fluid.	
	membrane rigid or fluid.	
	C-H is a draw hill a h	-
	faits are right.	_
	Phospholipid is a modified form of triggueeride	
	tout has been replaced by	
	prosphate head	
		s

Day / Date ethanol emulsion tell Red " change and state vigorously, Claudy employen fats present. Clean solution as negatic result. Junctions of fats: storage of every a insulation - structural component (cell membrone) - stores for soluble vitamins (D) -> protection of organs > steroid synthesis -> glycolipids as receptor 15 -> reserve of water in desert animals - cuticle in plants prevents transpiration 1 → cell repair (membrae) 18 Properties of Water 2 () Universal solvent () hydrolytic (3) Row material 5 **.** maj: 2 solutes are " 6(0, + GHO C H O + 60) soluble in water " imp: for billing chiorophy! Plasma Plants all enzymes Plasma Plants all enzymes tissue fluid H.O. sucrose metabolic realized gives nermal stability elimination for differentiane gives nermal stability Í 2 glucose ARA I've toller Things while it high deup the more nor inacting + salls philoem enzymes don't at low temp 3 0,100 media get denatured 0 Saji

d ď I hay / Date -0 @ high head of Z ( strong cohesive () Transparency a apourization E adhesive forces under water E ~ plants can get Take alot of energy Coherian Adherian light show - Arte 1. July Q when ig liquid - vapours blu H20 blu H20 photosynthesis Par Hived + + molecules & lignin 0 \_\_\_\_\_<sup>20†</sup> transpiration sweating participation of 2 produce, producing, dogs, capillary action cooling cooling v 5 effect effect effect plasma (90:40) kylem - phioem 5 P H,O moves in the form of column @ high a surface @ low density @ neutral pt (7) 6 H, O on surface enzymes not 6 ٩. due to now temp ->- denadured -6 It complecule on is converted into ice (insulator), u buffersone 4 surface pulled by 5 all aqualic life under that helps HO mole, beneath 6 it survives ad high texp to maintain tension created ice is les dense inter : più de everypuns 5 small insects can mater, fame a layer, around. -in float of surface of and as an insulator, ŵ 4.0 all aquadic life can 4 surfive without much terp change Q Give 4 properties of 40 [4] -3 a what is the role of 4 0 in plasma? [4] R Give 4 properties of H 0 in rulem and placem [4] -0 0 what is cappilory action and how does it help in the 1 movement y water in rytem [x] Sajid 🕴

## <u>Contact Us For Queries Or</u> <u>Suggestions</u>

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