

# Topic 2: Biochemistry

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\* indicates required question

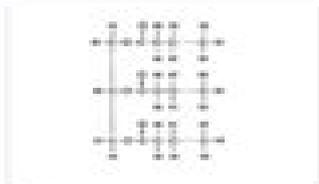
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Lipolysis is the removal of stored fat from molecules is most directly involved in this process



This one



This one

Which group consists entirely of organic molecules? \*

- water, carbon dioxide, oxygen
- proteins, starch, fat
- proteins, oxygen, fat
- water, starch, protein

The diagram below represents a series of reactions organisms. This diagram best illustrates the relationship between



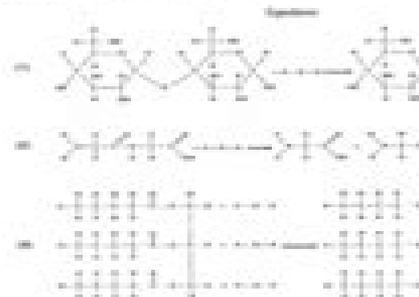
- antigens and immunity
- enzymes and synthesis
- amino acids and glucose
- ribosomes and sugars

The diagram below represents a protein molecule being. This type of molecule is composed of a series of



- four bases that make up the folded structure
- simple sugars alternating with starches arranged in a chain
- large inorganic subunits that form chains that are folded
- amino acids arranged in a specific order

Base your answer on the list of three equations below. Select that is most closely associated with that statement. This equation represents the digestion of a lipid.



- 1
- 2
- 3

A fully functioning enzyme molecule is arranged in a complex three-dimensional shape. This shape determines the

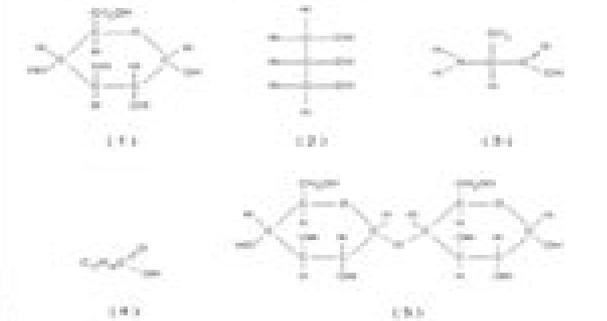
- pH of all body systems
- specific type of molecule it interacts with during a reaction
- rate at which the enzyme breaks down during a reaction if it is heated
- temperature of the products of the reaction it regulates

Which row in the chart below correctly pairs a final molecule with its building block? \*

Row	Final Molecule	Building Block
(1)	starch	amino acids
(2)	lipids	sugars
(3)	proteins	amino acids
(4)	polysaccharides	lipids

- 1
- 2
- 3
- 4

Some structural formulas of organic molecules are shown below. Which structural formula represents a carbohydrate molecule? \*



- 1 and 2
- 2 and 4
- 1 and 5
- 4 and 5

Base your answer on the diagram below and on your knowledge of biology. The diagram represents a portion of a starch molecule. The building blocks for this molecule are



- lipids
- molecular bases
- amino acids
- simple sugars

Water is classified as an inorganic compound because it

- does not contain carbon
- contains oxygen
- contains hydrogen
- does not contain oxygen

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**Michael Rajnik**



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web problems in fracture mechanics problem 1 if the specific surface energy for polymethyl acrylate is  $0.0365 \text{ J m}^{-2}$  and its corresponding modulus of elasticity is  $2.38 \text{ GPa}$  compute the critical tensile stress required for unstable propagation of a central internal crack whose

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web oct 10 2019 fracture is a problem that society has faced for as long as there have been man made structures the problem may actually be worse today than in previous centuries because more can go wrong