

Department of technology

Grade: 4 year students (chemical engineering)

Module: English

correction of the
exam

please give!

Text

Organic chemistry is a highly creative science that allows chemists to create and explore molecules and compounds. Organic chemists spend much of their time developing new compounds and finding better ways of synthesizing existing ones. Organic compounds are all around us. Many modern materials are at least partially composed of organic compounds. They're central to economic growth, and are foundational to the fields of biochemistry, biotechnology, and medicine. Examples of where you can find organic compounds include agrichemicals, coatings, cosmetics, detergent, dyestuff, food, fuel, petrochemicals, pharmaceuticals, plastics, and rubber.

Virtually all biotechnology ("biotech") products are the result of organic chemistry. Biotech involves using living organisms and bioprocesses to create or modify products for a specific use. For example, a biotech company might produce seeds for crops that are disease-resistant, or plants that are drought-resistant.

Questions:

Part one:

1/ say whether the following statements are true or false (4pts)

a/ each of biotechnology products are the result of organic chemistry..... True.....

b/ the economy field is in a continuous failure thanks to organic chemistry..... false.....

c/ organic chemistry is a highly inventive science..... true.....

d/ chemists create and explore when it comes to providing useful products true.....

2/ answer the following questions from the text (3pts)

a/ what is the difference between biomass and bioprocesses?

biomass involves living organisms / bioprocesses to create or modify products for specific use

b/ give an example of a biotech product from the text?

a biotech company might produce seeds for crops that are disease resistant

c/ which field ^{is} organic chemistry involved in?

we find it in agrichemicals, coatings, cosmetics, detergent, dyestuff, food, fuel - - - - -

3/ find words that are closest to meaning to the following words (1pt)

a/ output= produce

outcome= result

Part two:

1/ give to the following tools their functions in a brief way (3pts)

a/ test tube rack: is used for holding / carrying tubes

b/ thermometer: is used for measuring temperature

c/ filter funnel: is used for filtration with a help of a filter paper in order to separate liquid from solid

2/ translate the following words into English (2pts)

The first law of thermodynamics / القانون الأول للديناميكا الحرارية

quantitative analysis ب/ تحليل كمي

The chemical composition of samples ت/ التركيب الكيميائي للعينات

chemical analysis ث/ تحليل كيميائي

part three:

a/ fill in the gaps by using the following words (5pts)

system- temperature- thermodynamic- energy- laws (2.5pts)

Thermodynamic is the study of the relations between heat, work, temperature and energy.
the laws of thermodynamics describe how the energy in a system changes and
whether the system can perform useful work on its surroundings.

Reactions- interrelation- physical- chemical- laws (2.5pts)

chemical thermodynamics is the study of the interrelation of heat and work with
chemical reactions or with physical changes of state within the confines of the
laws of thermodynamics

Best of luck