



The English exam 2021/2022

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1- Complete the text about chemistry using the words in the box. (6p)

bind	charge	science	ions
nucleus	interactions	shape	molecules
mass	substances	matter	amounts

Chemistry is the science that systematically studies the composition, properties and activity of substances and various elementary forms of matter. Chemistry is the study of matter and energy and interactions between them. Energy has no shape or form. Matter is everything that occupies space and has mass. The fundamental building block of matter is the atom. It has a nucleus at its centre consisting of protons, which have a positive electrical charge, and neutrons which are uncharged. Negatively charged electrons circle around nuclei. Chemical reactions involve interactions between the electrons of one atom and the electrons of another atom. Atoms which have different amounts of electrons and protons have positive or negative electrical charge and are called ions. When atoms bind together, they can make larger building blocks of matter called molecules.

2- Answer the following questions. (3p)

- How would you define chemistry?

Chemistry is the science that systematically studies the composition, properties and activity of substances and various elementary forms of matter.

- Which branch of chemistry would you like to specialize in?

.....any name of a speciality is accepted.....

- Name four branches of chemistry.

1. analytical chemistry, 2. Organic chem, 3....inorganic chem....., 4.pharmaceutical chem.

- Name some products which would not exist without chemistry.

... site 3 objects for exp : drugs, soap, ink.....

3- Translate these words into Arabic (3 p)

Bond :	.....رابطة.....	Theory:	.....نظرية.....
substance:	.....مادة.....	Produce :	.....إنتاج.....
Disease :	.....مرض.....	Combustion :	.....احتراق.....
Transform	.....يحول.....	molecule	.....جزيء.....
Weight	.....وزن.....	Atomic Number	.....العدد الذري.....
Periodic Table	.....الجدول الدوري.....	Conservation of mass	.....حفظ الكتلة.....

4- Match these words and phrases with their definitions. (2p)

1.Oil refining	A. Unwanted part of production process
2. Waste	B. Something added to give taste
3. Flavouring	C. To take out of
4. Accurate	D. Making oil purer
5. Cure	E. Exact
6. Extract	F. Make healthy

1 = ...D.. ; 2 = .A. ; 3 = .B ; 4 = .E.... ; 5 = .F. ; 6 = .C. ;

Good Luck