

Question 1: (3p)

- Fill the gaps in the next paragraph

The atom is composed of aA..... and one or moreB...... TheA..... is made of one or moreC..... and typically a similar number ofA...... Protons and neutrons are calledD...... More than 99.94% of an atom's mass is in the nucleus. The protons have aE..... electric charge, theB..... have a negative electric charge, and theF..... have no electric charge.

The electrons of an atom are attracted to the protons in an atomic nucleus by thisG..... force. The protons andF..... in the nucleus are attracted to each other by a different force, theI..... force which is usually stronger than the electromagnetic force repelling the positively charged protons from one another.

- | | | |
|--------------|-------------|--------------------|
| A. nucleus | D. nucleons | G. electromagnetic |
| B. electrons | E. positive | H. nuclear |
| C. protons | F. neutrons | |

- What is the constituents of nucleus ? protons + neutrons
- What is the constituents of Atom ? electrons + nucleus

Question 2: (4p) Translate following words into Arabic language

periodic table	الجدول الدوري	atomic number	العدد الذري				
Arrangement	ترتيب	electron configurations	التشكيل الإلكتروني				
chemical elements	العناصر الكيميائية	chemical properties	الخصائص الكيميائية				
Approximately	تقريبا	Quantitative	كمي	Combustion	احتراق		
Transmutation	تحويل	metals	معادن	Period	طور	Behavior	سلوك
Theoretical	نظرياً	ion	شاردة	Relationship	علاقة		

Question 3: (2.5 p) Connect by arrow between main areas of chemistry and its corrects definitions

- | | | |
|---------------------------|---|--|
| 1. Organic Chemistry | → | A. Study compounds that do not include carbon |
| 2. Inorganic Chemistry | → | B. applies ideas of math and physics to chemistry |
| 3. Analytical Chemistry | → | C. Study compounds of carbon (some exceptions CO ₂ , CO considered inorganic) |
| 4. Physical Chemistry | → | D. chemistry of living things (from bacteria to humans) |
| 5. Biochemistry Chemistry | → | E. Study composition of matter and mixtures |

Question 4: (3 p) Write plural form for the following words

party/parties	monkey/monkeys	wish/wishes	class/classes
chef/chefs	mouse/mice	woman/women	sheep/sheep
University/universities	company/companies	wife/wives	man/men

Question 5: (5 p) Distribute these words according to the following table:

<u>Countable nouns</u>	<u>Uncountable nouns</u>
Exercise ; Window ; Child ; Atom ; policeman ; Scientist ; laboratory ; metal ; computer ; Person ; bottle ; Glass ; compound	Water ; milk ; Butter ; hair ; money ; Oil ; Glue

Question 6: (2.5p) Put the verbs in brackets into the correct tense:

- 1- He usually works until 4 p.m. (work)
- 2- Did you meet Paul yesterday? (you / meet)
- 3- The baby doesn't sleep now. (not / sleep)
- 4- What do you do at the moment? (you / do)
- 5- You don't study very much. Or You did not study very much. (not / study)
- 6- Tom lived in London three years ago. (live)
- 7- Peter and his friends go to school by bus always. (go)
- 8- John tidies his room every day. (tidy)
- 9- If I arrive late, I will call you. (call)
- 10- I'm moving house tomorrow, you will come and help me. (come)