

**Question 1: (3p)**

- Fill the gaps in the next paragraph

The atom is composed of a .....A..... and one or more .....B..... The .....A..... is made of one or more .....C..... and typically a similar number of .....A..... . Protons and neutrons are called .....D..... More than 99.94% of an atom's mass is in the nucleus. The protons have a .....E.....electric charge, the .....B..... have a negative electric charge, and the .....F..... have no electric charge.

The electrons of an atom are attracted to the protons in an atomic nucleus by this .....G..... force The protons and .....F..... in the nucleus are attracted to each other by a different force, the .....I..... 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 |                    |

0.25 x 8

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

0.15  
0.15

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

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

0.25 x 16

**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 <sub>2</sub> , 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  |

0.15 x 5

**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

0.25 x 12

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

0,25 x 20

<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:

0,25 x 10

- 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)