

أولى ماستر فيزياء 2021/2020

السبت 2021-06-05

امتحان في مقياس الأنجليزية

المدة: ساعة ونصف

Section A

الاسم واللقب: الفوج:

I- Answer the following questions:

1- Define the atomic number of an element?

The atomic number of an element is the number of protons that each atom has in its nucleus.

2 - What is the maximum number of valence electrons in an atom?

The maximum number of valence electrons in an atom is 8 (Eight) electrons.

3- What is the difference between the valence shell and the outer shell?

No difference

4- What is a «valence electron»?

Electrons of the outer shell

5- What is the polarity of the charge of an object, that has more electrons than protons?

Negative**II- Fill in each gap with one word:**1- The **nucleus** is the central part of the atom.2- Electrons **revolve** in orbits around the nucleus of an atom.3- The proton is **one-third** the diameter of an electron, but it almost 1840 times heavier than the electron.4- The proton has a **positive** electrical charge.5- 1 inch = **2.54** Cm, 1feet = **30.48** Cm, 1 mile = **1.609** Km**III- Translate from English into Arabic: (07pts)**

English	Enough is enough	move	produce	Little over	types	make up	lighter than air
Arabic	يكفي يعني يكفي	يتحرك	ينتج	أكثر بقليل	أنواع	تشكل	أخف من الهواء

English	light	By the same token	Reduce	combination	yet	Separation	electrical field
Arabic	ضوء	على نفس المنوال	يقلص	اتحاد	بعد	فصل	حقل كهربائي

Section B

I- Answer the following questions:

1- How many valence electrons have the best electrical conductors?

Only one

2- What particles are found in the nucleus of an atom? In the orbits?

The nucleus of an atom contains protons and neutrons, in the orbits we can find electrons

3- What is matter?

Matter is anything that has weight and occupies space.

4- Name two semiconductors, and two conductors?

Two semiconductors = Si, Ge ... Two conductors = Copper, Silver.

5- Is salt an element or a compound? Oxygen? Water?

Salt is compound, ... Water is compound, ... Oxygen is element.

II- Translate from English into Arabic:

- Everything we see about us is made from the elements. But the elements themselves cannot be produced.

كل شيء نراه من حولنا يتكون من عناصر. لكن العناصر نفسها لا يمكن انتاجها.

- A positive ion is produced when a parent atom loses an electron.

الايون الموجب ينتج عندما تفقد الذرة الام الكترون.

- Electrical conduction is the flow of free electrical charge through a material

التوصيل الكهربائي هو تدفق للشحنات الكهربائية الحرة خلال المادة.

- Metals are good conductors

المعادن هي نواقل جيدة.

- Basically, an atom contains three types of subatomic particles.

أساسا، تحتوي الذرة على ثلاثة أنواع من الدقائق دون الذرية.

About us: من حولنا

Produce : ينتج

The flow : التدفق

Name : سمي

Contain: تحتوي، تشمل

Good Luck

Bonne Chance

حظ سعيد