

SAMPLE EXAM SECTION I (Units 1-5)

FILL IN THE GAPS

(..... GRAMMAR; _____ VOC/WORD FORMATION)

Depending the methods of production and (SU) chemical nature, molecules may be _____ (LINE = adj) and chain-like, or may be tri-dimensional network structures resulting permanent cross-links between the chains, (COMO) (SHOW) in (LA FIGURA 2). The molecules may assume three types of _____ (ARRANGE = noun), (DANDO LUGAR A) the amorphous, _____ (CRYSTAL = adj), and oriented state. In the amorphous state, the molecules are arranged a random manner somewhat (COMO) a mass of cooked spaghetti.

Because the _____ (LONG =Noun) of the molecules, polymers can never have a degree of order (EQUIVALENTE AL DE) low molecular materials (COMO EL HIELO) or common salt. An oriented polymer will be (MUCHO MAS FUERTE) in the direction of orientation a sample of unoriented material of the same polymer.

GRAMMAR TEST

(PENALTY: 3 wrong answers = +1wrong)

- Manganin is a bad conductor being a metal
a) in spite of b) instead of c) despite of d) since
- Oil is used energy source in thermal power stations
a) like b) such as c) like an d) as an
- Copper is used in wires due to
a) its malleability b) it is malleable c) the malleability d) it is malleability
- A transformer is a device depends on the number of turns of each coil
a) which voltage b) that voltage c) which the voltage d) whose voltage
- An atom contains protons
a) equal electrons than b) as electrons as c) as many electrons as d) the same electrons as
- Rapid cooling is causes internal stresses
a) what b) which c) that d) that it
- The composition of an alloy conditions applications
a) it's b) its c) their d) theirs
- One only needs to add amount of carbon.
a) a tiny b) a few c) fewer d) littler
- RED-OX is the name to the process used in cells
a) that it gives b) which gives c) that it is given d) given
- Materials are classified ____ their properties.
a) depend on b) depend of c) according to d) according of
- ^o Iron weighs ... aluminium
a) twice much more than b) twice as much as c) twice heavier than d) twice as
- Many metals are good conductors. By contrast, only ... non-metals conduct well
a) a few b) a small amount of c) few d) many fewer
- This engine will be mass-produced depending on... it runs
a) how efficient b) how fastly c) how good d) how efficiently
- The caps were processed in the same manner ... in the specifications-
a) as that described b) that it is described c) as is described d) that describe
- An alloy is a metal ... are a metal and another metal or non-metal
a) that the components b) which components c) of which the components d) the components of which
- Silicon can be classed ...
a) into non-metals b) as a non-metal c) as non-metals d) into a non-metal
- One of the following expressions is not followed by "to":
a) identical b) as distinct c) in contrast d) as opposed
- ... malleability, copper is more malleable than iron
a) Regarding to b) As far as c) As respect to d) As regards
- A soft material is ...
a) more easily workable b) more easy to shape c) easier workable d) easily to shape
- Certain materials prevent the oxidation of the metal ... over time.
a) that is occurred b) that it occurs c) occurred d) that occurs

When we heat ice it water a)becomes into b)turns in c)changes d)becomes e) is done

An electrolytic cell is the place a)which electrolysis takes place b)in which electrolysis gives rise
c)in which it takes place electrolysis d)in which electrolysis takes place e)in which it gives rise electrolysis

Conductors through them a)let electricity flows b)let electricity to flow
c)permit electricity flowing d)permit electricity flow e)let electricity flow

Switch off all the electrical devices the interferences in the computer
a)for avoiding b)so as to avoid c)so that to avoid d)so that avoiding e)as avoiding

Silicon is used in manufacturing chips it is a semiconductor a)due to b)because of c)as d)thus e)so that

READING COMPREHENSION : TIN

Tin (1) is a pure element belonging to the carbon group (2). It is a soft, silvery-white metal with a bluish (3) aspect, known to the ancients in bronze, an alloy (4) with copper. Tin is widely used for plating steel cans (5) used as food containers, in metals used for bearings and in solder.

Tin is non-toxic, ductile (6), malleable and adapted to all kinds of cold-working such as rolling, spinning and extrusion. The colour of pure tin is retained during exposure (7) because a thin invisible, protective layer (8) of tin oxide is formed by reaction with the oxygen of the air. The low melting point (9) of tin and its firm adhesion to clean surfaces facilitate its use as an oxidation-resistant coating material (10).

Since (11) tin is fairly weak (12), it is not used in structures unless alloyed with other metals; yet (13) it has become a very common metal in alloys for industry.

QUESTIONS

- 1- what is the symbol for tin?
- 2- Translate the sentence BELONGING TO THE CARBON GROUP
- 3- BLUISH is Spanish is
- 4- An ALLOY is
- 5- Translate the sentence TINCANS
- 6- Explain this property in English
- 7- EXPOSURE: translate into Spanish. What is the word formation of this word?
- 8- Translate into Spanish BECAUSELAYER
- 9- Explain in English LOW MELTING POINT
- 10- Translate AN OXIDATION-RESISTANT COATING MATERIAL
- 11- SINCE: give a synonym
- 12- Translate into Spanish FAIRLY WEAK
- 13- Translate YET into Spanish

SOLUTION

FILL IN THE GAPS

Depending **ON** the methods of production and **THEIR** (SU) chemical nature, molecules may be **LINEAR** (LINE = adj) and chain-like, or **THEY** may be tri-dimensional network structures resulting **IN** permanent cross-links between the chains, **AS** (COMO) **SHOWN** (SHOW) in **FIGURE 2** (LA FIGURA 2). The molecules may assume three types of **ARRANGEMENT** (ARRANGE = noun), **GIVING RISE TO** (DANDO LUGAR A) the amorphous, **CRYSTALLINE** (CRYSTAL = adj) and oriented state. In the amorphous state, the molecules are arranged **IN** a random manner somewhat **LIKE** (COMO) a mass of cooked spaghetti.

Because **OF** the **LENGTH** (LONG =Noun) of the molecules, polymers can never have a degree of order **EQUIVALENT TO THAT OF** (EQUIVALENTE AL DE) low molecular materials **LIKE/SUCH AS ICE** (COMO EL HIELO) or common salt. An oriented polymer will be **MUCH STRONGER** (MUCHO MAS FUERTE) in the direction of orientation **THAN** a sample of unoriented material of the same polymer.

1. Manganin is a bad conductor being a metal
 a) **in spite of** b) instead of c) despite of d) since
2. Oil is used energy source in thermal power stations
 a) like b) such as c) like an d) **as an**
3. Copper is used in wires due to
 a) **its malleability** b) it is malleable c) the malleability d) it is malleability
4. A transformer is a device depends on the number of turns of each coil
 a) which voltage b) that voltage c) which the voltage d) **whose voltage**
5. An atom contains protons
 a) equal electrons than b) as electrons as c) **as many electrons as** d) the same electrons as
6. Rapid cooling is causes internal stresses
 a) **what** b) which c) that d) that it
7. The composition of an alloy conditions applications
 a) it's b) **its** c) their d) theirs
8. One only needs to add amount of carbon.
 a) **a tiny** b) a few c) fewer d) littler
9. RED-OX is the name to the process used in cells
 a) that it gives b) which gives c) that it is given d) **given**
10. Materials are classified ____ their properties.
 a) depend on b) depend of c) **according to** d) according of
11. Iron weighs ... aluminium
 a) twice much more than b) **twice as much as** c) twice heavier than d) twice as
12. Many metals are good conductors. By contrast, only ... non-metals conduct well
 a) a little b) a small amount of c) **few** d) many fewer
13. This engine will be mass-produced depending on... it runs
 a) how efficient b) how fastly c) how good d) **how efficiently**
14. The caps were processed in the same manner ... in the specifications-
 a) **as that described** b) that it is described c) as is described d) that describe
15. An alloy is a metal ... are a metal and another metal or non-metal
 a) that the components b) which components c) of which the components d) **the components of which**
16. Silicon can be classed ...
 a) into non-metals b) **as a non-metal** c) as non-metals d) into a non-metal
17. One of the following expressions is not followed by "to":
 a) identical b) **as distinct** c) in contrast d) as opposed
18. ... malleability, copper is more malleable than iron
 a) Regarding to b) As far as c) As respect to d) **As regards**
19. A soft material is ...
 a) **more easily workable** b) more easy to shape c) easier workable d) easily to shape
20. Certain materials prevent the oxidation of the metal ... over time.
 a) that is occurred b) that it occurs c) occurred d) **that occurs**

QUESTIONS

- 1- what is the symbol for tin? **Sn**
- 2- Translate the sentence BELONGING TO THE CARBON GROUP **que pertenece al grupo del carbono**
- 3- BLUISH is Spanish is **azulado**
- 4- An **ALLOY is a mixture of two metals**
- 5- Translate the sentence TINCANS El **estaño se usa mucho para recubrir las latas de acero**
- 6- Explain this property in English **A material can be drawn into wires**
- 7- EXPOSURE: translate into Spanish. What is the word formation of this word? **Exposicion. EXPOSE(Vb)+URE=NOUN**
- 8- Translate into Spanish BECAUSELAYER **Una capa protectora delgada e invisible**
- 9- Explain in English LOW MELTING POINT **The material becomes a liquid at relatively low temperatures**
- 10- Translate AN OXIDATION-RESISTANT COATING MATERIAL **material de recubrimiento resistente a la oxidacion**
- 11- SINCE: give a synonym **because**
- 12- Translate into Spanish FAIRLY WEAK **bastante debil**
- 13- Translate YET into Spanish **sin embargo, aún así.**