

## SAMPLE OF EXAM SECTION II

### MULTIPLE CHOICE (PENALTY = 3 wrong = -1) (10 marks)

- The discovery of electromagnetism \_\_\_\_\_ the development of many electric devices  
a) let to      b)leaded to      c) was allowed      d) led to
- \_\_\_\_\_ engines, motors need electricity to work.      a) as opposed to      b) by contrast      c) as opposition of      d) contrarily
- Generators can produce \_\_\_\_\_ as 1.5 million volts  
a) as much energy      b)much energy      c)as energy      d)too much energy
- The addition of chromium \_\_\_\_\_  
a) prevents iron from corroding \_\_\_\_\_      b)prevents iron to corrode      c)makes iron corroding      d)makes iron to corrode
- Variation in the field around a conductor may be produced \_\_\_\_\_ the strength of the entire field  
a) by vary      b) varied      c) by varying      d) with varying
- The conductor \_\_\_\_\_ an emf is to be induced should be part of an electric circuit  
a) in that      b) which      c) in which      d) in where
- The kinetic energy of steam causes \_\_\_\_\_  
a) the turbine spin      b) to spin the turbine      c) that the turbine spins      d)the turbine to spin
- Wind farms \_\_\_\_\_ in places with strong winds      a) build      b)are build      c)are built      d)built
- What would happen if you \_\_\_\_\_ this bar?      a) would heat      b)heated      c)heat      d)would have heated
- A piece of iron is magnetised when it is placed \_\_\_\_\_ a current      a) next      b)opposite of      c) inside      d) near of
- Aluminium is used in structures \_\_\_\_\_      a) due to be light      b) since it is light      c) as has a light weight      d) because is light
- Water causes \_\_\_\_\_      a) iron corrode      b) that iron corrodes      c) iron to corrode      d)to corrode iron
- Painting is one method of \_\_\_\_\_  
a) preventing iron from rusting      b)causing iron rust      c) preventing that iron rusts      d) preventing to rust iron
- Some heat treatments \_\_\_\_\_ an increase in malleability.      a) become in      b) become      c)give rise      d) result in
- Steel is cooled slowly \_\_\_\_\_ the internal stresses are relieved.      a) in order to      b) for that      c) so that      d) for
- \_\_\_\_\_ the length of the molecules, polymers can never have the same ordered arrangement as low molecular materials.  
a) Because      b)Due      c)For      d)Owing to

### COMPOSITION (10 marks)

Compare RENEWABLE and NON-RENEWABLE ENERGY SOURCES (150 words). Include the following expressions and underline them

CONTRARILY      PERMIT+VB      WHEREAS      THE SAME      AS WELL AS      OTHERWISE

### FILL IN THE GAPS/TRANSLATION (10 marks)

#### ENERGY SOURCES

Energy sources \_\_\_\_\_ (SE PUEDEN DIVIDIR EN RENOVABLES y NO RENOVABLES). The former are \_\_\_\_\_ (LAS QUE) will remain forever \_\_\_\_\_ - (YA QUE VIENEN DE RECURSOS NATURALES), \_\_\_\_\_ (COMO) solar or wind energy, \_\_\_\_\_ (MIENTRAS QUE LAS NO RENOVABLES) consist basically of \_\_\_\_\_ (COMBUSTIBLES FOSILES) which will run out in a short period of time. \_\_\_\_\_ (A DIFERENCIA DE LAS ENERGIAS ALTERNATIVAS) these fuels cause serious problems to the environment, because \_\_\_\_\_ - (CUANDO SE QUEMAN EN LAS CENTRALES TERMICAS) or in cars, the sulphur contained in them, is released to the atmosphere and \_\_\_\_\_

\_\_\_\_\_ (DA COMO RESULTADO LA LLUVIA ACIDA). \_\_\_\_\_  
 \_\_\_\_\_ (DEL MISMO MODO), the emissions of CO<sub>2</sub> increase the greenhouse  
 effect \_\_\_\_\_ - (YA QUE PERMITE QUE LOS  
 RAYOS INFRARROJOS PASEN) through it but \_\_\_\_\_  
 \_\_\_\_\_ (IMPIDE QUE VUELVAN A LA  
 ATMOSFERA), \_\_\_\_\_  
 (LO QUE HACE QUE LA TEMPERATURA DE LA TIERRA AUMENTE).  
 \_\_\_\_\_ - (A PESAR DE QUE) these effects are causing dramatic  
 changes in the environment, this problem is receiving \_\_\_\_\_ (POCA ATENCION) from governments.

## SOLUTION EXAM SECTION II

### MULTIPLE CHOICE

1. The discovery of electromagnetism \_\_\_\_\_ the development of many electric devices  
 a) let to                      b) leaded to                      c) was allowed                      **d) led to**
2. \_\_\_\_\_ engines, motors need electricity to work.      a) **as opposed to**                      b) by contrast                      c) as opposition of                      d) contrarily
3. Generators can produce \_\_\_\_\_ as 1.5 million volts      a) **as much energy**                      b) much energy                      c) as energy                      d) too much energy
4. The addition of chromium \_\_\_\_\_  
 a) **prevents iron from corroding**                      b) prevents iron to corrode                      c) makes iron corroding                      d) makes iron to corrode
5. Variation in the field around a conductor may be produced \_\_\_\_\_ the strength of the entire field  
 a) by vary                      b) varied                      **c) by varying**                      d) with varying
6. The conductor \_\_\_\_\_ an emf is to be induced should be part of an electric circuit      a) in that                      b) which                      **c) in which**                      d) in where
7. The kinetic energy of steam causes \_\_\_\_\_  
 a) the turbine spin                      b) to spin the turbine                      c) that the turbine spins                      **d) the turbine to spin**
8. Wind farms \_\_\_\_\_ in places with strong winds      a) build                      b) are build                      **c) are built**                      d) built
9. What would happen if you \_\_\_\_\_ this bar?      a) would heat                      **b) heated**                      c) heat                      d) would have heated
10. A piece of iron is magnetised when it is placed \_\_\_\_\_ a current      a) next                      b) opposite of                      **c) inside**                      d) near of
11. Aluminium is used in structures \_\_\_\_\_      a) due to be light                      **b) since it is light**                      c) as has a light weight                      d) because is light
12. Water causes \_\_\_\_\_ a) iron corrode                      b) that iron corrodes                      **c) iron to corrode**                      d) to corrode iron
13. Painting is one method of \_\_\_\_\_  
 a) **preventing iron from rusting**                      b) causing iron rust                      c) preventing that iron rusts                      d) preventing to rust iron
14. Some heat treatments \_\_\_\_\_ an increase in malleability.      a) become in                      b) become                      c) give rise                      **d) result in**
15. Steel is cooled slowly \_\_\_\_\_ the internal stresses are relieved.      a) in order to                      b) for that                      **c) so that**                      d) for
16. \_\_\_\_\_ the length of the molecules, polymers can never have the same ordered arrangement as low molecular materials.  
 a) Because                      b) Due                      c) For                      **d) Owing to**

### TRANSLATION

#### ENERGY SOURCES

Energy sources CAN BE DIVIDED INTO RENEWABLE & NON-RENEWABLE SOURCES. The former are THOSE WHICH will remain forever SINCE THEY COME FROM NATURAL RESOURCES, LIKE solar or wind energy, WHEREAS NON-RENEWABLE SOURCES consist basically of FOSSIL FUELS which will run out in a short period of time. UNLIKE ALTERNATIVE ENERGY SOURCES these fuels cause serious problems to the environment, because WHEN THEY ARE BURNT IN THERMAL POWER PLANTS or in cars, the sulphur contained in them, is released to the atmosphere and RESULTS IN ACID RAIN. SIMILARLY, the emissions of CO<sub>2</sub> increase the greenhouse effect AS IT PERMITS INFRARED RAYS TO PASS through it but PREVENTS THEM FROM COMING BACK TO THE ATMOSPHERE, WHICH MAKES THE EARTH'S TEMPERATURE RISE.. DESPITE THE FACT THAT these effects are causing dramatic changes in the environment, this problem is receiving LITTLE ATTENTION from governments.