

Abune Gorgorios Schools

Name _____

No. _____



Subject:- chemistry

Grade 12 Section

2012EC SECOND SEMESTER Worksheet 3 FOR GRADE 12

Chemistry Work sheet 3 Grade 12

On Chapter 5- Some Elements in Nature and Industry

Direction I: Write “True” if the statement is correct and write “False” if the statement is incorrect on the blank space provided.

- Minerals that are suitable for the extraction of elements are called ores
- All minerals are ores, but not all ores are minerals.
- Ammonia is prepared by the Haber process and is mainly used to make fertilizers
- Iron is the first most abundant element in the earth's crust
- Naturally, nitrogen is fixed by lightning and bacteria in the root nodules of Leguminous plants. Industrially, nitrogen is mainly fixed by the Haber process
- In the carbon cycle, Carbon returns to the atmosphere by respiration, burning of fossil fuels and decomposition of dead organisms.
- The most reactive elements exist in the native state and the least reactive elements exist in the form of compounds

Directionn - II. Match the Minerals order column “A” with its Name under column “B” and write your choice on the space provided in front of each question (8%)

Column “A”

- Pbs
- Fe_2O_3
- Hgs

Column “B”

- A. Cassiterite
- B. Dolomite
- C. Epsomite

- CaCO_3 . MgCO_3 D. Galena
- $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$ E. Hematite
- FeS_2 F. Pyrites
- SnO_2 G. Cinnabar
- ZnS H. Bauxite
- Zinc blend

• **Direction II: Choose the best answer from the given alternatives and write the letter of your answer in Capital letters on the blank space provided.**

- Alkali metals can be extracted from their salts by
 - Reduction with carbon C. Electrolysis of a aqueous solution of their halides
 - Reduction with Aluminum D. Electrolysis of fused halides
- Slaked lime is obtained when water is added to
 - CaO C. CaCl_2
 - CaCO_3 D. Ca(OH)_2
- Concentrated nitric acid will not attack
 - Hg B. Zn C. Ag D. Au
- Main process for the manufacture of sodium carbonate is
 - Carbon process C. Frasch process
 - Solvay process D. Ethane
- CaC_2 reacts with water to give
 - Methane C. Ethane
 - Acetylene D. Ethylene

