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GREENLAWNS HIGH SCHOOL CHEMISTRY FINAL EXAMINATION

STD:8 TIME: 2 HOURS	MARKS: 80	
You will not be allowed to write for the first 10 minutes .This time is to be used to read the question paper. Answers to this paper must be written on the paper provided separately. All questions are compulsory		
SECT	ΓΙΟΝ 1	
QUESTION 1		
A) Name the following i) Natural form of graphite ii) Compound formed when oxygen comition in Elements having properties of method in Product formed when diamond but v) Process by which plants manufactur vi) Fertilizer prepared using carbon divii) Conversion of liquid to gas viii) Forces that hold carbon atom in gas ix) Sub atomic particles present in the x) Compound formed when carbon method in Sub atomic particles present in the x)	als and non metals rns in air re food oxide graphite rnucleus of the atom	
B) Complete the following equations.(Reme i) $CO + H_2 \rightarrow$ ii) $NaHCO_3 + HC1 \rightarrow$ iii) $Na_2CO_3 + H_2SO_4 \rightarrow$ iv) $CaCO_3 + H_2O + CO_2 \rightarrow$ v) $CO + H_2O \rightarrow$	ember to balance them). (5)	
C) Fill in the blanks .Write only the answer i) Solid carbon dioxide is known as ii) Ahas more protons the iii) An atom is the smallest particle of iv) Coal is aform of carbon v) is used as alubricant	an electrons	

the first or last word to make it a correct.	
 i) Diamond burns at 700°C ii) Carbon dioxide is added to the atmosphere by photosynthesis iii) Limewater is the common name for calcium oxide iv) Allotropy is due to the difference in arrangement of molecules v) Non metals lose electrons to attain stability 	(5)
E) Balance the following equations	(5)
i) $S + H_2SO_4 \rightarrow SO_2 + H_2O$ ii) $ZnS + O_2 \rightarrow Zn O + SO_2$ iii) $H_2 + O_2 \rightarrow H_2O$ iv) $Fe + Cl_2 \rightarrow FeCl_3$ v) $H_2O + NO_2 + O_2 \rightarrow HNO_3$	
F) Identify whether the following is a physical or a chemical change	(3)
 i) Ripening of fruit ii) Growing of a tree iii) Vapoursation of water iv) Melting of wax v) Boiling of milk vi) Burning of a candle 	
G) Name the allotrope of carbon used in the following	(2)
 i) Used in the manufacture of water gas and producer gas ii) filler in rubber tyres iii) Used as electrodes iv) as a decolourising agent 	
H) Write the molecular formula of the following compounds	(5)
i) Calcium carbonate ii) Sodium phosphate iii) Lead nitrate iv) Ammonium chloride v) Copper oxide	

SECTION II

QUESTION 2

- A) Give one difference between the following on the basis of what is given in brackets (5)
- i) CO and CO2 (when passed through lime water)
- ii) diamond and graphite (shape of crystal)
- iii) CO and CO2 (vapor density)
- iv) Exothermic and Endothermic reaction (Definition)
- v) Diamond and Graphite (Density)
- B) Define
- i) Catalyst
- ii) Allotropy
- iii) A chemical change
- iv) Neutralisation
- v) Valency

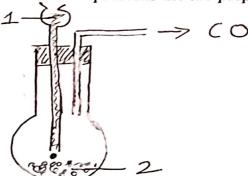
QUESTION 3

A) With respect to the lab preparation of carbon dioxide

(5)

(5)

- i) Give an equation for the reaction
- ii) Why does carbon dioxide have a sour taste
- iii) Give a chemical test for carbon dioxide
- IV) Why is carbon dioxide used to extinguish a fire(2 points)
- B) The diagram above represents the lab preparation of carbon monoxide (5)



- i) Identify 1 and 2.
- ii) Write an equation for the same
- iii) Name an impurity produced during the reaction
- iv) How is this impurity removed?
- v) Why is carbon monoxide not prepared in the lab?

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(5)

QUESTION 4

A) Give reasons

i)	Baking powder is added when making a cake	
ii)	Diamonds have a a bright lustre	
iii)	Wood charcoal is used as a reducing agent. Give an equation to exp	lain .
iv)	An ion has a charge	
v)	Fermentation is a chemical change	
B) Ident	tify the type of chemical reaction each of the following is	(5)
i) Ca	CO_3 $CaO + CO_2$	
ii) C	$a(NO_3)_2 + Na_2CO_3 \longrightarrow 2NaNO_3 + CaCO_3$	
	$2H_2+O_2 \rightarrow 2H_2O$	
	$2SO_2 + O_2 \longrightarrow 2SO_3$	
	$I_2 + 3H_2 \leftarrow \rightarrow 2NH_3$	
QUESTIC	ON 5	
A) An	element X 19 ,	(5)
i) H	low many electrons are present in atom X	
,	How many protons	
iii)	Write its electronic configuration	
iv)	Draw its atomic structure	
v)]	Is element X a metal or a non metal	
B) With 1	respect to carbon monoxide, answer the questions that follow	(5)
i) l	Name the compound formed when carbon monoxide combines with h	aemoglobin
ii)	How is this compound harmful?	
iii	How should a victim of carbon monoxide poisoning be treated	
iv	How is the gas mask used by workers in factories useful	
	Name any one situation which may lead to	