

MODEL ENTRANCE TEST PAPER

BRITISH SECTION

SUBJECT: CHEMISTRY

GRADE: 11

TOTAL MARKS: 30

I. Choose the one you consider correct

[10 M]

- 1) In which of the following does a chemical change take place.
 - A) Distillation
 - B) Evaporation
 - C) Filtration
 - D) neutralization
- 2) Which of the following is a property of all the metals?
 - A) They conduct electricity
 - B) They have a grey silver color
 - C) They have high melting points
 - D) They have low densities
- 3) Nitrogen and phosphorus are plant nutrients. Which fertilizer contains both these nutrients?
 - A) Ammonium nitrates
 - B) Ammonium phosphate
 - C) Sodium nitrate
 - D) Sodium phosphate
- 4) Which metal reacts most quickly with water?
 - A) Copper
 - B) magnesium
 - C) Potassium
 - D) Zinc
- 5) Which of the following is a property of all acids?
 - A) They are solid at room temperature

- B) Their aqueous solutions have pH greater than 7.
C) They react with copper to give hydrogen
D) They react with bases
- 6) Which gas burns in air?
A) Argon B) carbon dioxide
C) hydrogen D) Oxygen
- 7) Which substance can neutralize hydrochloric acid?
A) Ammonia B) carbon oxide
C) Litmus solution D) water
- 8) Which equation metal ion gives a blue precipitate with aqueous sodium hydroxide?
A) Al^{3+} B) Ca^{2+}
C) Cu^{2+} D) Fe^{2+}
- 9) In an exothermic reaction
A) A gas is given off
B) Heat is produced
C) A catalyst is used
D) There is a color change
- 10) Which of the following is the pH value of an alkaline solution?
A) 1 B) 5
C) 7 D) 9

II. Fill in the blanks:

[5 M]

- 1) g of carbon is present in 100g of CaCO_3
- 2) gas is used to remove some of the carbon from the iron in the making of steel.
- 3) An acidified aqueous solution of potassium Produces a yellow ppt with lead nitrate solution.
- 4) Steel is a

5) Fermentation is fastest at temperature of°C

III. Match the following

[5 M]

- | | |
|-----------------|---------------|
| 1) Hydrogen | yeast |
| 2) Fermentation | limestone |
| 3) Ammonia | fuel |
| 4) Aluminium | pungent smell |
| 5) Cement | Bauxite |

IV) Answer the following

[5 M]

1) Give a chemical equation for the reaction of Zinc with steam

[1 M]

.....

2) Name the elements from which the electrodes are made in the extraction of Aluminium

[1 M]

.....

1) Complete the following equation

[2 M]



3) Give one use of mild steel?

[1M]

.....