

NAME.....CLASS.....

WANYANGE GIRLS' SECONDARY SCHOOL

S.3 CHEM

ATTEMPT ALL QUESTIONS

1. a) Differentiate between covalent and ionic bonding

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b) State the type of bonding that occurs in each of the following substances and draw diagrams to show the type of bonding you have mentioned:

i) Chlorine molecule

ii) Water molecule

lii) Calcium chloride

iv) Sodium metal

2. a) What do you understand by the term electron configuration?

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b) Write the electron configuration of the following elements whose atomic numbers have been given:

a) W (2).....

b) X (8).....

c) Y (11).....

d) Z (19).....

e) T (20).....

3. An element M has 15 protons and mass number of 31. Write the;

i) Atomic number of M.....

ii) Mass number of M.....

iii) Electron configuration of M.....

iv) valency of M.....

v) Period to which M belongs.....

vi) Group to which M belongs.....

vii) Formula of the oxide of M.....

viii) Formula of the chloride of M.....