## Extended answer. (10 marks)

Reaction rates can be increased in a number of ways.
 Name two of them and explain why they increase the rate of the reaction.

Temperature (1) Toped of particles resulting in more frequent collision Trate of reaction.

1 concentration (1) farticles more lettely to collide and allows boads to break of reform (1)

See p 164-166 Peers on 8 for other.

2. There are groups on the periodic table with special characteristics. These are groups 1, 17, 18 on the periodic table

Name each of these groups and outline the special characteristics demonstrated by each of them.

Atkali

(1) Hortoge metals - form + 1 cas, too

reactive to be found free in nature, have

typical metalic properties (lushe et) react

with the toform alkalis (any 3 = 1½ marks)

(17) Hologene form ions with + 1, not found

free in nature, gettinget bigget and less reactive

as the group goes down, have colleved and

personans gazes, diatomic (any 3 = 1½ marks)

(raup is - Noble gases finert (2) colourless,

occur naturally in the atmosphere, incredibly stable,

atoms get larger as the group goes down

(any 3 = 1½ marks)