



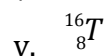
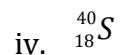
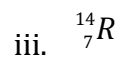
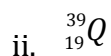
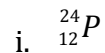






### Question 6

(a) Write the electronic configuration, number of valence electrons and classify the following as metals, non-metals and inert gases.



[5]

(b) How are chlorofluorocarbons decomposed?

[5]

### Question 7

(a) The volume occupied by a certain gas was found to be 5.6 dm<sup>3</sup> at 2 atmospheric pressure. If the pressure is increased by 20%, find the new volume of the gas. [3]

(b) 100 cm<sup>3</sup> of a gas at 27°C is cooled to 20°C at constant pressure. Calculate the volume of gas at 20°C. [2]

(c) Write the main causes of acid rain.

[5]