a) The term species is sometimes used to refer to neutral atoms and to positive and negative ions.

The table shows the numbers of subatomic particles in eight different species.

Species	Number of protons	Number of neutrons	Number of electrons
А	5	5	5
В	5	6	5
С	6	7	5
D	6	7	7
Е	7	7	7
F	7	7	10
G	8	8	10
Н	8	10	10

(i) Explain which two letters represent neutral atoms of the same element.
(ii)Explain which two letters represent negative ions formed from the same element.

(iii) Expla		•	ne atom with the lowest mass number.
(iv) What is	s the electronic	configuration	n of species E?
- Use the t		able on page	e 2 to answer this question.
	B As		D Si
-	ment with an a		
A Al	B Ar	C Ca	D Zr
(b) An aton	n of an elemer	nt has the elec	ctronic configuration 2.8.3
(i) State the	e number of th	e group in the	e Periodic Table in which this element is found.
(ii) Explain	your answer ir	n terms of the	atom's electronic configuration.
(iii) State th	ne number of th	he period in th	ne Periodic Table in which this element is found.
(iv) Explain	ı your answer i	n terms of the	e atom's electronic configuration.
(v) Identify	the element.		