

Question number	Answer	Notes	Marks
4 (a) (i)	mass number = 3; atomic number = 1;		2
(ii)	idea that a (further) neutron is required (for further fission reactions); (but) no neutrons produced (in the fission process);		2
(b)	fission is the splitting of a <u>nucleus</u> ; fusion is the joining of two <u>nuclei</u> ;	allow “breaking down”, “dividing” for splitting allow “fusing”, “combining” for joining	2

Total for Question 4 = 6 marks