

Exam Question Answers

- 1) a) Similarity – They've all got the same number of protons/electrons **[1 Mark]**. Difference – They all have different numbers of neutrons **[1 Mark]**
 b) 1 proton, 1 neutron (2-1), 1 Electron **[1 Mark]**
 c) ^3H **[1 Mark]** *Since Tritium has 2 neutrons in the nucleus and also 1 proton, it has a mass number of 3. You could also write ^3_1H , but you don't really need the atomic number.*
- 2) a) i) They both have 18 electrons **[1 Mark]**
 ii) They both have 16 protons (*the atomic number of S must always be the same*) **[1 Mark]**
 iii) They both have 22 neutrons **[1 Mark]**
 b) A and C **[1 Mark]**. They have the same number of protons but different numbers of neutrons. **[1 Mark]** *It doesn't matter that they have a different number of electrons because they are still the same element.*

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