

Q1.(2021)

a)

148

b)

D and E

c)

line between B and 86 protons

same line between B and 222
mass number

d)

can't predict which nucleus will
decay next

or

can't predict when a (particular)
nucleus will decay

e)

one alpha decay would
decrease proton number by 2

two beta decays would increase
proton number by 2

so the proton / atomic number of
the final nucleus is the same as
the proton / atomic number of
the original nucleus