

Name of the Student: _____

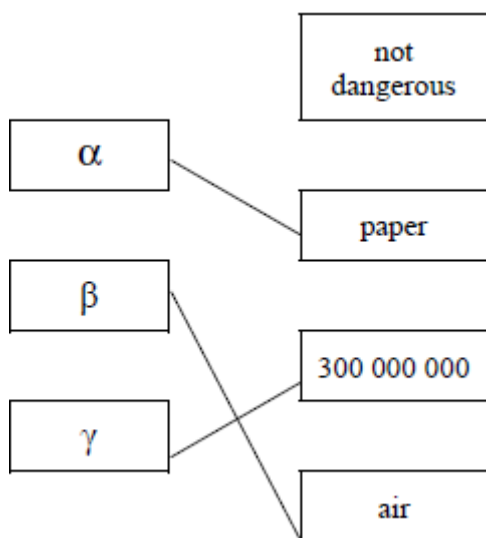
Max. Marks : 18 Marks

Time : 18 Minutes

Mark Schemes

Q1.

(a) 3 correct lines drawn



any box in list A with 2 or more lines,
all lines for that box do not score

3

(b) radiation damages our cells

accept radiation can cause cancer

accept kills cells

accept changes DNA / causes mutations

accept dangerous / poisonous / harmful / toxic

accept so precautions can be taken

1

(c) it can pass through the human body

1

(d) (i) 6 (hours)

no tolerance

1

(ii) 6 (hours)

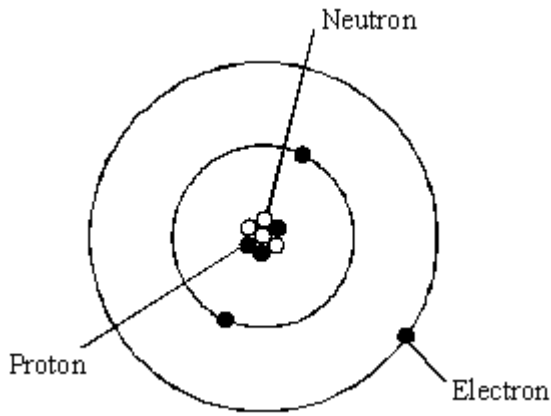
accept their (d)(i)

1

[7]

Q2.

(i) each correct label scores 1 mark



3

(ii) neutron

1

(iii) 7

1

number of protons and neutrons **or** number of nucleons or number of particles in the nucleus

accept number of particles in the centre only if first answer = 7

1

[6]

Q3.

(a) 95

1

(b) alpha

1

accept correct symbol

(c) any **two** from:

- radiation is outside the body
accept detector is on ceiling or high up the wall
- radiation will not reach (living) cells
accept radiation cannot pass through the body / skin
- radiation absorbed by the air
accept cannot pass through the plastic casing
*do **not** accept because it is alpha radiation – unless qualified*
*do **not** accept does not give off harmful substance*
*do **not** accept cannot pass through building materials etc*

2

(d) less (than)

1

[5]