Practice Question Set For GCSE
Subject : Physics
Paper-1 Topic: Atomic Structure (Standard Demand)

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Name of the Student:_____
Max. Marks : 20 Marks **Time : 20 Minutes**

Mark Schemes

Q1.

(a) 1, 0
X, -l (X = negligible / very small / (1/1840) to (1/2000), but not nothing
2 for 4 correct
1 for 2/3 correct
2

(b) has a nucleus which is positive charge
negative charges (electrons) orbit nucleus
each for 1 mark
3

[5]

Q2.

(a) two half lives
gains 1 mark

but
20 minutes
gains 2 marks
2

(b) alphas will be stopped by skin / air **or** do not penetrate betas and gammas
can reach / damage organs / cells
for 1 mark each
2

[4]

Q3.

(a) 90
for one mark
1

(b) (i) neutron
for one mark
1

(ii) nucleus
for one mark
1

(iii) electron

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for one mark

1

(c) (i) 100

for one mark

1

(ii) 157

for one mark

1

[6]

Q4.

(a) (i) B

for one mark

2

(ii) has a different number of electrons (protons)

for one mark

(b) (i) A and C

for one mark

1

(ii) same number of protons / electrons, same nuclear charge
different number of neutrons / nuclear masses different

for 1 mark each

2

[5]

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