

Name of the Student: _____

Max. Marks : 20 Marks

Time : 20 Minutes

Mark Schemes

Q1.
C
 $4.0 \times 10^{-14} \text{ m}$
[1]

Q2.
D
gamma radiation from nuclides with a small decay constant.
[1]

Q3.
C
The number of alpha particles deflected backwards is greater than the number that pass straight through the foil.
[1]

Q4.
A
when a particular nucleus will decay.
[1]

Q5.
B
 β^-
[1]

Q6.
C
 16 MBq
[1]

Q7.
B
 $1.0 \times 10^8 \text{ W}$
[1]

Q8.

D

$$6.1 \times 10^8$$

[1]

Q9.

C

[1]

Q10.

A

[1]

Q11.

C

[1]

Q12.

B

[1]

Q13.

C

[1]

Q14.

D

[1]

Q15.

C

[1]

Q16.

A

[1]

Q17.

C

[1]

Q18.

B

[1]

Q19.

C

[1]

Q20.

A

[1]