

Q1.(2019)

a)

Change in mass = $460 - 280$

Change in mass = 180 (mg)

b)

130 (mg)

c)

an electron

a positive

Q2.(2021)

the time it takes for the count
rate of a sample to halve

Q3.(2023)

a)

the time taken for half the nuclei
in a sample to decay

b)

carbon-18