

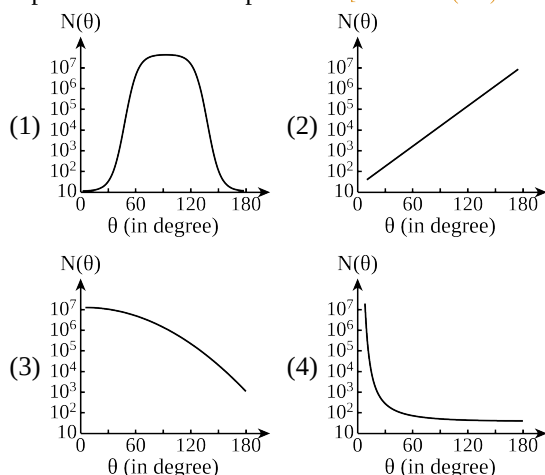
NEET ATOMS — ALPHA-PARTICLE SCATTERING AND RUTHERFORD'S NUCLEAR MODEL — PYQS

Max. Marks: 12

Questions: 3

Section A (MCQ) — 3 questions

- Q.1** In Geiger-Marsden experiment, the number of scattered α -particles $N(\theta)$ is plotted as a function of scattering angle θ . Which of the following options represents the correct plot? [RE-NEET (UG) 2026]



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- Q.2** Given below are two statements:

Statement-I: Atoms are electrically neutral as they contain equal number of positive and negative charges.

Statement-II: Atoms of each element are stable and emit their characteristic spectrum.

In the light of the above statements, choose the most appropriate answer from the options given below.

[NEET (UG) 2024]

- (1) Both Statement-I and Statement-II are correct
- (2) Both Statement-I and Statement-II are incorrect
- (3) Statement-I is correct but Statement-II is incorrect
- (4) Statement-I is incorrect but Statement-II is correct

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- Q.3** α -particle consists of : [NEET (UG) 2019]

- (1) 2 electrons, 2 protons and 2 neutrons
- (2) 2 electrons and 4 protons only
- (3) 2 protons only
- (4) 2 protons and 2 neutrons only

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ANSWER KEY

Ques.	1	2	3										
Ans.	4	3	4										