

JEE MAIN STRUCTURE OF ATOM — ELECTRONIC CONFIGURATION OF ATOMS AND IONS — PYQS

Max. Marks: 8
Questions: 2

Section A (MCQ) — 2 questions

- Q.1** The extra stability of half-filled subshell is due to :
- Symmetrical distribution of electrons
 - Smaller coulombic repulsion energy
 - The presence of electrons with the same spin in non-degenerate orbitals
 - Larger exchange energy
 - Relatively smaller shielding of electrons by one another

Identify the correct statements :

[JEE Main 2025 (Online) 7th April Evening Shift]

- (1) B, D and E only (2) A, B, D and E only
 (3) B, C and D only (4) A, B and D only

Scan or tap for the full solution



- Q.2** Consider the ground state of chromium atom ($Z = 24$). How many electrons are with Azimuthal quantum number $l = 1$ and $l = 2$ respectively ?

[JEE Main 2025 (Online) 4th April Evening Shift]

- (1) 16 and 5 (2) 12 and 5 (3) 12 and 4 (4) 16 and 4

Scan or tap for the full solution



ANSWER KEY

Ques.	1	2									
Ans.	2	2									