

PYQSide

NEET D- AND F-BLOCK ELEMENTS — OXIDATION STATES OF LANTHANOIDS — PYQS

Max. Marks: 12

Questions: 3

Section A (MCQ)

Q.1 Although +3 oxidation state is most common in lanthanoids, cerium still shows +4 oxidation state because : [NEET (UG) 2026]

- (1) After losing one more electron, it acquires $4f^{14}$ electronic configuration.
- (2) Its nearest inert gas is Radon.
- (3) After losing one more electron, it acquires $4f^0$ electronic configuration.
- (4) Its atomic number is 61.

Scan or tap for the full solution



Q.2 Which of the following set of ions act as oxidising agents? [RE-NEET (UG) 2024]

- (1) Ce^{4+} and Tb^{4+}
- (2) La^{3+} and Lu^{3+}
- (3) Eu^{2+} and Yb^{2+}
- (4) Eu^{2+} and Tb^{4+}

Scan or tap for the full solution



Q.3 Which of the following oxidation states is the most common among the lanthanoids?

[AIPMT 2010 (Mains)]

- (1) 4
- (2) 2
- (3) 5
- (4) 3

Scan or tap for the full solution



ANSWER KEY

Ques.	1	2	3								
Ans.	3	1	4								