

PART 1 - CHEMISTRY

Topic : p-Block elements (group 15–18)

SECTION-A : (Maximum Marks : 4)

This section contains **ONE** question.

Each question has **TWO** lists: **List-I** and **List-II**.

Four options are given representing matching of elements from List-I and List-II. **ONLY ONE** of these four options corresponds to a correct matching.

For each question, choose the option corresponding to the correct answer.

Answer to each question will be evaluated according to the following marking scheme :

Full Marks : +4 If **ONLY** the correct option is chosen;

Zero Marks : 0 If none of the options is chosen (i.e. the question is unanswered);

Negative Marks : -1 In all other cases.

1. Based on VSEPR model, match the xenon compounds given in **List-I** with the corresponding geometries and the number of lone pairs on xenon given in **List-II** and choose the correct option.

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List-I		List-II	
P.	XeF_2	1.	Trigonal bipyramidal and two lone pair of electrons
Q.	XeF_4	2.	Tetrahedral and one lone pair of electrons
R.	XeO_3	3.	Octahedral and two lone pair of electrons
S.	XeO_3F_2	4.	Trigonal bipyramidal and no lone pair of electrons
		5.	Trigonal bipyramidal and three lone pair of electrons

- (A) P-5, Q-2, R-3, S-1 (B) P-5, Q-3, R-2, S-4 (C) P-4, Q-3, R-2, S-1 (D) P-4, Q-2, R-5, S-3

Scan or tap for the
full solution



Space for Rough Work

JEE ADVANCED P-BLOCK ELEMENTS (GROUP 15–18) — VSEPR SHAPES OF XENON COMPOUNDS — PYQS

Test Pattern : **JEE (Advanced)**

ANSWER KEY

SECTION-A

[illegible]