Udaan 2025 Chemistry

DHA: 02

Essential Chemistry Basics for Class 10

Q 1	The number of valence electrons in a sulphide ion,			(A) M_2N_3	(B) MN
	S^{2-} is:			(C) M_2N	(D) M_3N_2
	(A) 16	(B) 10	Q 6	An element M forms the c	chloride (MCl ₂). What will
	(C) 9	(D) 8		be the formula of its phos	ohate?
Q 2	Four elements W, X, Y and Z contain 8, 11, 9 and 17				(B) $M_3(PO_4)_2$
protons per atom respectively. The		vely. The element which		(C) $M_3(PO_4)_4$	(D) $M(PO_4)_3$
	cannot form an anion is most likely to be:		III 1		
	(A) W	(B) X	Q 7	Formula of sodium carbor	nate is and that
	(C) Y	(D) Z	_	of ammonium sulphate is_	
	, ,			(A) Na_2CO_3 and NH_4S	O_4
\mathbf{Q} 3	Electronic configuration of Ca^{2+} is shown by:			(B) $NaHCO_3$ and $\left(NH_4 ight)_2SO_4$	
	(A) Ar	(B) He	dilli	(C) Na_2CO_3 and (NH_4)	$_2SO_4$
	(C) F	(D) Ne		(D) $NaCO_3$ and NH_4SO_4	\mathcal{O}_4
Q 4	What will be the overall charge on ammonium ion?		Q 8	An element X with atomic	number 13 combines with
	(A) 1-	(B) 1+	IIA V	another element Y of atom	nic number 17. The formula
	(C) 2-	(D) 2+	III. 1	of the compound will be:	
Q 5	The metal M forms an oxide, M ₂ O ₃ . The formula of		100.4	(A) XY_2	(B) X_2Y
				(C) X_3Y	(D) XY_3
	its nitride will be:				

Answer	Key

ŲΙ	ע
Ω2	R

Q3 A

Q4 B

Q5 B

Q6 B

 \mathbf{C}

Q8 D

Q7



Hints & Solutions

Q 1 Text Solution:

The number of electrons in S^{2-} will be 8 . After gaining 2 electrons in valence shell it will complete the octet configuration.

Video Solution:



Q 2 Text Solution:

Try to think about an element with 1 valence electron in the valence shell.

Video Solution:



Q 3 Text Solution:

In Ca^{2+} the number of electrons will be 18 and the number of protons will be 20.

Video Solution:



Q 4 Text Solution:

Use Sunil bhaiya's FON trick to identify the overall charge on NH_4^X .

Video Solution:



Q 5 Text Solution:

Try to decode the valency of M from M_2O_3 . Now, criss-cross the valency with nitrogen to get the formula of nitride.

Video Solution:



Q 6 Text Solution:

Try to decode the valency of M from MCl_2 . Now, criss-cross the valency with nitrogen to get the formula of phosphate.

Video Solution:



Q 7 Text Solution:

Criss-cross the valencies of elements to obtain the correct formula.

Video Solution:



Q 8 Text Solution:

Criss-cross the valencies of elements to obtain the correct formula.

Video Solution:





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