

S Block**JEE Main 2020 Chapterwise****Questions with Answer Keys****Chemistry****Q1 JEE Main 2020 - 2 September (Morning)**

The metal mainly used in devising photoelectric cells is

- (A) Na
- (B) Rb
- (C) Li
- (D) Cs

Q2 JEE Main 2020 - 2 September (Evening)

Two elements A and B have similar chemical properties. They don't form solid hydrogencarbonates, but react with nitrogen to form nitrides. A and B, respectively, are

- (A) Li and Mg
- (B) Cs and Ba
- (C) Na and Rb
- (D) Na and Ca

Q3 JEE Main 2020 - 4 September (Morning)

On combustion of Li, Na and K in excess of air, the major oxides formed, respectively, are

- (A) Li_2O , Na_2O_2 and K_2O
- (B) Li_2O_2 , Na_2O_2 and K_2O_2
- (C) Li_2O , Na_2O_2 and KO_2
- (D) Li_2O , Na_2O and K_2O_2

Q4 JEE Main 2020 - 4 September (Evening)

An alkaline earth metal 'M' readily forms water soluble sulphate and water insoluble hydroxide. Its oxide MO is very stable to heat and does not have rock-salt structure. M is

- (A) Ca
- (B) Mg
- (C) Sr
- (D) Be

Q5 JEE Main 2020 - 6 September (Morning)

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Among the sulphates of alkaline earth metals, the solubilities of BeSO_4 and MgSO_4 in water, respectively, are

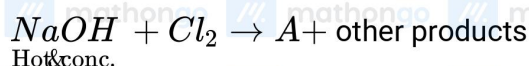
- (A) poor and poor
- (B) poor and high
- (C) high and poor
- (D) high and high

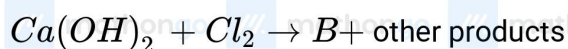
Q6 JEE Main 2020 - 6 September (Evening)

Match the following compounds (Column-I) with their uses (Column-II)

S.No.	Column-I	S.No.	Column-II
(I)	Ca(OH)_2	(A)	casts of statues
(II)	NaCl	(B)	white wash
(III)	$\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$	(C)	antacid
(IV)	CaCO_3	(D)	washing soda preparation

- (A) (I) – (B), (II) – (C), (III) – (D), (IV) – (A)
- (B) (I) – (B), (II) – (D), (III) – (A), (IV) – (C)
- (C) (I) – (C), (II) – (D), (III) – (B), (IV) – (A)
- (D) (I) – (D), (II) – (A), (III) – (C), (IV) – (B)

Q7 JEE Main 2020 - 7 January (Evening)

S Block**JEE Main 2020 Chapterwise****Questions with Answer Keys****Chemistry**

Cold & dil.

A & *B* are respectively

- (A) $NaClO_3$, $Ca(OCl)_2$
- (B) $NaClO_3$, $Ca(ClO_3)_2$
- (C) $NaCl$, $Ca(ClO_3)_2$
- (D) $NaClO$, $Ca(ClO_3)_2$

Q8 JEE Main 2020 - 8 January (Morning)

When gypsum is heated to 393 K it forms

- (A) dead burnt plaster
- (B) Anhydrous $CaSO_4$
- (C) $CaSO_4 \cdot \frac{1}{2}H_2O$
- (D) $CaSO_4 \cdot 5H_2O$

Q9 JEE Main 2020 - 8 January (Evening)

A metal (*A*) on heating in nitrogen gas gives compound *B*. *B* on treatment with H_2O gives a colorless gas which when passed through $CuSO_4$ solution gives a dark blue-violet coloured solution. *A* and *B* respectively, are :

- (A) Mg , Mg_3N_2
- (B) Na , Na_3N
- (C) Mg , $Mg(NO_3)_2$
- (D) Na , $NaNO_3$

Q10 JEE Main 2020 - 9 January (Evening)

The reaction of $H_3N_3B_3Cl_3$ (*A*) with $LiBH_4$ in tetrahydrofuran gives inorganic benzene (*B*).

Further, the reaction of (*A*) with (*C*) leads to $H_3N_3B_3(Me)_3$. Compounds (*B*) and (*C*) respectively, are:

- (A) Boron nitride and $MeBr$
- (B) Borazine and $MeMgBr$
- (C) Borazine and $MeBr$
- (D) Diborane and $MeMgBr$

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Questions with Answer Keys

Chemistry

Q11 JEE Main 2020 - 9 January (Evening)

Among the statements (a)-(d), the correct ones are :

- (a) Lithium has the highest hydration enthalpy among the alkali metals.
- (b) Lithium chloride is insoluble in pyridine.
- (c) Lithium cannot form ethynide upon its reaction with ethyne.
- (d) Both lithium and magnesium react slowly with H_2O .

- (A) (a), (b) and (d) only
- (B) (b) and (c) only
- (C) (a) and (d) only
- (D) (a), (c) and (d) only

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Questions with Answer Keys

Chemistry

Answer Key

Q1 (D)

Q2 (A)

Q3 (C)

Q4 (D)

Q5 (D)

Q6 (B)

Q7 (A)

Q8 (C)

Q9 (A)

Q10 (B)

Q11 (D)