

NEET S-BLOCK ELEMENTS — IMPORTANT COMPOUNDS OF CALCIUM — PYQS

Max. Marks: 32

Questions: 8

Section A (MCQ) — 8 questions

- Q.1** CaCl_2 and $\text{Ca}(\text{OCl})_2$ are components of
 [NEET (UG) 2022 (Phase 2)]
 (1) Lime water (2) Gypsum
 (3) Portland cement (4) Bleaching powder

 Scan or tap for the full solution
 

- Q.2** The product obtained as a result of a reaction of nitrogen with CaC_2 is
 [NEET 2016 (Phase 1)]
 (1) CaCN_2 (2) Ca_2CN (3) $\text{Ca}(\text{CN})_2$ (4) CaCN

 Scan or tap for the full solution
 

- Q.3** The suspension of slaked lime in water is known as
 [NEET 2016 (Phase 2)]
 (1) lime water
 (2) quick lime
 (3) milk of lime
 (4) aqueous solution of slaked lime.

 Scan or tap for the full solution
 

- Q.4** Match **List-I** with **List-II** for the compositions of substances and select the correct answer using the codes given below.
 [AIPMT 2011 (Mains)]

List-I (Substances)		List-II (Composition)	
A.	Plaster of Paris	i.	$\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$
B.	Epsomite	ii.	$\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$
C.	Kieserite	iii.	$\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$
D.	Gypsum	iv.	$\text{MgSO}_4 \cdot \text{H}_2\text{O}$
		v.	CaSO_4

- (1) (A)-(iii), (B)-(iv), (C)-(i), (D)-(ii)
 (2) (A)-(ii), (B)-(iii), (C)-(iv), (D)-(i)
 (3) (A)-(i), (B)-(ii), (C)-(iii), (D)-(iv)
 (4) (A)-(iv), (B)-(iii), (C)-(ii), (D)-(i)

 Scan or tap for the full solution
 

- Q.5** Which one of the following is present as an active ingredient in bleaching powder for bleaching action?
 [AIPMT 2011 (Prelims)]

- (1) CaOCl_2 (2) $\text{Ca}(\text{OCl})_2$
 (3) CaO_2Cl (4) CaCl_2

 Scan or tap for the full solution
 

- Q.6** The compound A on heating gives a colourless gas and a residue that is dissolved in water to obtain B. Excess of CO_2 is bubbled through aqueous solution of B, C is formed which is recovered in the solid form. Solid C on gentle heating gives back A. The compound is
 [AIPMT 2010 (Mains)]

- (1) CaCO_3 (2) Na_2CO_3
 (3) K_2CO_3 (4) $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$

 Scan or tap for the full solution
 

- Q.7** Which of the following oxides is **not** expected to react with sodium hydroxide?
 [AIPMT 2009]

- (1) CaO (2) SiO_2 (3) BeO (4) B_2O_3

 Scan or tap for the full solution
 

- Q.8** A solid compound X on heating gives CO_2 gas and a residue. The residue mixed with water forms Y. On passing an excess of CO_2 through Y in water, a clear solution Z is obtained. On boiling Z, compound X is reformed. The compound X is
 [AIPMT 2004]

- (1) $\text{Ca}(\text{HCO}_3)_2$ (2) CaCO_3
 (3) Na_2CO_3 (4) K_2CO_3

 Scan or tap for the full solution
 

ANSWER KEY

Ques.	1	2	3	4	5	6	7	8			
Ans.	4	1	3	2	2	1	1	2			