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

Max. Marks: 32 **Questions:** 8

Section A (MCQ) — 8 questions

Q.1 $CaCl_2$ and $Ca(OCl)_2$ 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) $Ca(CN)_2$ (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.	$CaSO_4 \cdot 2H_2O$
B.	Epsomite	ii.	$CaSO_4 \cdot \frac{1}{2}H_2O$
C.	Kieserite	iii.	$MgSO_4 \cdot 7H_2O$
D.	Gypsum	iv.	$MgSO_4 \cdot H_2O$
		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) $Ca(OCl)_2$
(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) $CaSO_4 \cdot 2H_2O$

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) $Ca(HCO_3)_2$ (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			