



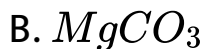
CHEMISTRY

JEE MAIN AND ADVANCED

MOCK TEST 23

Example

1. The most thermally unstable carbonate among the following is





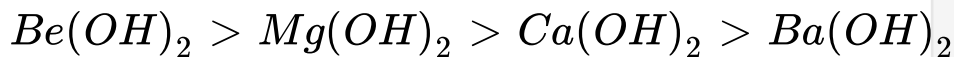
Answer: C



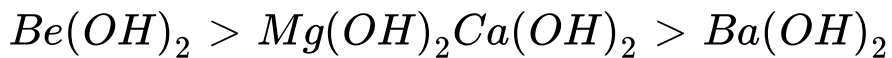
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2. The order of basic strength of alkaline earth metal hydroxide is

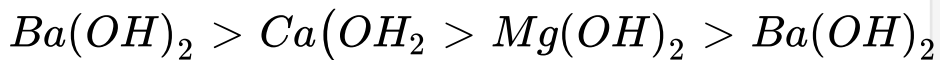
A.



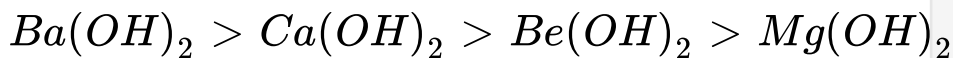
B.



C.



D.

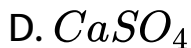
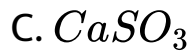
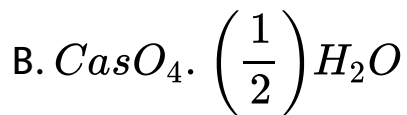
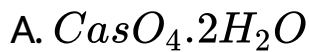


Answer: C



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3. Dead burnt plaster is

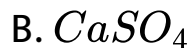
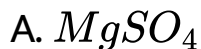


Answer: C



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4. Which of the following is least soluble in water?



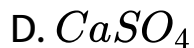
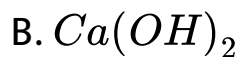


Answer: D



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5. Hydrolith is



Answer: A



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6. Select the incorrect statement about beryllium and aluminium?

A. Chlorides of beryllium and aluminium are soluble in organic solvents

B. Beryllium and aluminium hydroxides are soluble in excess of alkali

C. Chlorides of beryllium and aluminium are strong lewis acids

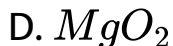
D. Aluminium and beryllium readily react with mineral acid to give hydrogen gas

Answer: D



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7. CaO does not react with

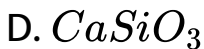
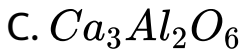
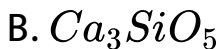
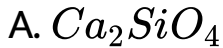


Answer: D



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8. Which is not considered as a constituent of portland cement?



Answer: D



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9. The alkaline earth metal ion present in chlorophyll is among the metal

A. Ca

B. Mg

C. Be

D. Ba

Answer: B

10. Concentration of Ca ion in blood plasma is (approximately)

A. 10mgL^{-1}

B. 100mgL^{-1}

C. 50mgL^{-1}

D. 25mgL^{-1}

Answer: B



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11. Which of the following metals do not combine directly with hydrogen gas to form hydride?

A. Mg

B. Ca

C. Be

D. Sr

Answer: C



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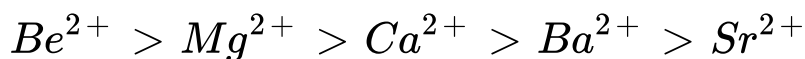
12. Which is incorrect physical property order for the given alkaline earth metals?

A. Metallic radius : $Ba > Sr > Ca > Mg > Be$

B. Reducing nature : $BaSr > Ca > Mg > Be$

C. Density : $Ba > Sr > Be > Mg > Ca$

D. Negative hydration enthalpy :



Answer: D



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13. P_1 : Chloride of A imparts brick red colour to the flame. Select the correct statement P_2 : Shape of D is trigonal pyramidal. P_3 : E does not decompose on heating. P_4 : is used to remove temporary hardness of water...

A. P_2, P_3, P_4

B. P_1, P_2, P_4

C. P_1, P_3, P_4

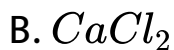
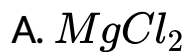
D. P_1, P_2, P_3

Answer: B



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14. Among the following given chlorides, covalent in nature is



Answer: C



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15. The compound which is not formed on heating

$Be(NO_3)_2$ is

A. N_2O

B. O_2

C. NO_2

D. BeO

Answer: A



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