## total molarity y f the solution.

equal to the K.
d. the number of moles thed dissolve to give one ilier of superssaturated


b. $\left.K_{\mathrm{s}}=\left[\begin{array}{l}\text { Na } \\ \text { a }\end{array}\right] H-K_{3}\right]$
c. $\left.\left.\mathrm{K}_{\mathrm{p}}=\left(\mathrm{Na}_{\mathrm{a}}\right)_{\mathrm{H}} \mathrm{H}^{2}\right)^{2} \mathrm{CO}_{3}{ }^{2}\right]$
d. $\left.\mathrm{K}_{\mathrm{ps}}=\left(\mathrm{NaH}^{2} \mathrm{H}_{1}\right) \mathrm{COO}_{3}^{2}\right]$

a. $K_{p s}=\left[P^{2}=2\right]^{2}[\mathrm{Cl}]$

-. $\mathrm{K}_{\mathrm{s}}==\left[\mathrm{Pb}^{2} \mathrm{~Pb}^{2}\right]=[\mathrm{Cl}(\mathrm{Cl}]$

## Question $6 \quad 20$ ns


a. $1.63 \times 10^{39}$
b. $1.16 \times 10^{95}$
c. $9.79 \times 10^{-39}$
c. $9.9 .9 \times 10^{0.09} 7$

Question 7

a. $5.3 \times 10^{-4}$
b. $1.4 \times 10^{7}$
c. $28 \times 10^{7}$

Sest

a. 10 M
b. 4 M
d. 1 m

Question 9 200tr
Rank the following salts foom least tom most molars soubuilty:

Alio $_{4} \quad K_{5 s}=9.8 \times 10^{-21}$
$\mathrm{CaSO}_{4}$

b. $\mathrm{CaSO}_{4}<\mathrm{Bil}_{1}<\mathrm{APPO}_{4}<\mathrm{Casas}_{4} \mathrm{AO}_{4} \mathrm{~A}_{2}$




#### Abstract

 the aviue of $K_{\text {spo for }} M \times$ a. $3.16 \times 10^{-5}$ b. $2.69 \times 10^{-8}$ c. $299 \times 10^{-9}$ d. $9.48 \times 10^{-5}$

Question 11



b. BaCO3 does not preceipitate

d BaCO receip

Question 12 20 is

a. $0.5 \mathrm{M} \mathrm{K}_{2} \mathrm{SO}_{4}(\mathrm{aq})$
. $1.0 \mathrm{M} \mathrm{CaCl} \mathrm{I}_{2 \mathrm{aa}}$
c. pure water

CaSOq would have the same solubilityin all three of theses solutions

