Hydrates and Acids ANSWERS

1. Give the correct names for each of the acids listed below.

a) hydrochloric acid	HCl(aq)	n) hydroiodic acid	HI(aq)
b) citric acid	H₃C₅H₅O7(aq)	o) phosphoric acid	H₃PO₄(aq)
c) benzoic acid	HC6H5COO(aq)	p) nitrous acid	HNO2(aq)
d) acetic acid	HC2H3O2(aq)	q) thiosulfurous acid	H2S2O2(aq)
e) periodic acid	HIO4(aq)	r) nitric acid	HNO₃(aq)
f) lactic acid	HC₃H₅O₃(aq)	s) hydrotelleric acid	H₂Te(aq)
g) formic acid	HCOOH(aq)	t) hydrocyanic acid	HCN(aq)
h) iodic acid	HIO₃(aq)	u) hydroselenic acid	H₂Se(aq)
i) oxalic acid	$H_2C_2O_4(aq)$	v) nitrous acid	HNO2(aq)
j) sulfurous acid	H₂SO₃(aq)	w) hypooxalous acid	$H_2C_2O_2(aq)$
k) sulfuric acid	H₂5O₄(aq)	x) hydrofluoric acid	HF(aq)
1) carbonic acid	H₂CO₃(aq)	y) boric acid	H₃BO₃(aq)
m) phosphorous acid	H₃PO₃(aq)	z) hydrosulfuric acid	H₂S(aq)

2. Write the correct name for each of the following acids.

a)	HC2H3O2(aq)	acetic acid	m)	HC5H8NO4(aq)	glutamic acid
b)	$H_2B_4O_7(aq)$	tetraboric acid	n)	H ₃ PO ₄ (aq)	phosphoric acid
c)	H3AsO3(aq)	arsenous acid	0)	HClO(aq)	hypochlorous acid
d)	HI(aq)	hydroiodic acid	p)	HBr(aq)	hydrobromic acid
e)	H3BO3(aq)	boric acid	q)	$H_2C_2O_4(aq)$	oxalic acid
f)	HF(aq)	hydrofluoric acid	r)	H2CO3(aq)	carbonic acid
g)	HCNO(aq)	cyanic acid	s)	H2SiO2(aq)	silicous acid
h)	H2SO4(aq)	sulfuric acid	†)	HFO2(aq)	fluorous acid
i)	$H_2C_4H_4O_6(aq)$	tartric acid	u)	$HC_{17}H_{35}COO(aq)$	stearic acid
j)	HCN(aq)	hydrocyanic acid	v)	H ₃ PO ₃ (aq)	phosphorous acid
k)	H(HCOO)(aq)	formic acid	w)	HCl(aq)	hydrochloric acid
I)	HNO3(aq)	nitric acid	x)	HBrO₂(aq)	bromous acid