

ECAT Chemistry Chapter 16 The Halogens and The Noble Gases Online Test

Sr	Questions	Answers Choice
1	Which of the following hydrogen halide is the weakest acid in solution	A. HF B. HBr C. HI D. HCl
2	Chlorine heptoxide (Cl ₂ O ₇) reacts with water to form	A. Hypochlorous acid B. chloric acid C. Perchloric acid D. Chlorine and Oxygen
3	Hydrogen bond is the strongest between the molecules of	A. HF B. HCl C. HBr D. HI
4	Which halogen will react spontaneously with Au(s) to produce Au ³⁺	A. Br ₂ B. F ₂ C. I ₂ D. Cl ₂
5	the anhydride of HClO ₄ is	A. ClO ₃ B. ClO ₂ C. Cl ₂ O ₅ D. Cl ₂ O ₇
6	Bleaching powder may be produced by passing chlorine over	A. Calcium carbonate B. Hydrated calcium sulphate C. Anhydrous calcium sulphate D. Calcium hydroxide
7	Which is the strongest acid?	A. HClO B. HClO ₂ C. HClO ₃ D. HClO ₄
8	Which halogen occurs naturally in a positive oxidation state?	A. Fluorine B. Chlorine C. Bromine D. Iodine
9	An element that has a high ionization energy and tends to be chemically inactive would most likely be	A. an alkali metal B. a transition element C. a noble gas D. a halogen
10	Which of the following represents the correct electronic configuration of the outermost energy level of an element of zero (VIIA) group in the ground state?	A. s ² p ² B. s ² p ⁴ C. s ² p ⁵ D. s ² p ⁶
11	Astatine belongs to group	A. I-A B. II-A C. III-A D. VII-A
12	The most reactive elements are	A. Group IV-A B. Group V-A C. Group VI-A D. Group VII-A
13	Half life period of astatine is	A. 8.1 hrs B. 8.2 Hrs C. 8.3 hrs D. 8.4 hrs
14	The only non-metal in liquid form is	A. S B. Cl C. Br D. P
15	Which halogen has lustrous shining?	A. F ₂ B. Cl ₂ C. Br ₂ D. I ₂

16	Smell of halogen is	A. Fruity B. Sweet C. Irritating D. Rotten egg
17	Which halogen has maximum Van-der Waal's forces?	A. F_2 B. Cl_2 C. Br_2 D. I_2
18	Oxidation state of fluorine is	A. +1 B. +2 C. -1 D. -2
19	Which has the least oxidizing power?	A. F_2 B. Cl_2 C. Br_2 D. I_2
20	Gaseous HF exists in the form of	A. Monomers B. Cyclic hexamers C. As single entity D. Both a and b
21	Angle in OF_2 is	A. 120° B. 180° C. 105° D. 102°
22	I_2O_5 is used for quantitative study of	A. CO_2 B. NO_2 C. NO D. CO
23	Noble gases are placed in group	A. Group IV-A B. Group V-A C. Group VI-A D. Group VII-A
24	Which compound of noble gas xenon can be prepared?	A. Oxides B. Fluoride C. Oxyfluorides D. All of these
25	Which has complete valence shell?	A. C B. N C. O D. Ne
26	Which noble gas is used in mixture used for breathing by divers?	A. Cl_2 B. NH_3 C. CO_2 D. He
27	Which is used as cooling medium in nuclear reactors?	A. He B. Ne C. Ar D. Kr
28	Which is used in arc welding and cutting?	A. He B. Ne C. Ar D. Kr
29	Which is used in bacterial lamps	A. He B. Ne C. Ar D. Kr
30	Halogens are called	A. Salt former B. Light bearing C. Copper forming D. none of these
31	Which of the following hydrogen halide is the weakest acid in solution?	A. HF B. HBr C. HI D. HCl
32	Chlorine heptoxide reacts with water to form:	A. Hypochlorous acid B. Chloric acid C. Perchloric acid D. Chlorine and oxygen
33	Hydrogen bond is the strongest between the molecules of:	A. HF B. HCl C. HBr

		C. I-Br D. HI
34	An element that has a high ionization energy and tends to be chemically inactive would most likely to be:	A. an alkali metal B. a transition element C. a noble gas D. a halogen
35	Astatine belongs to group:	A. I-A B. II-A C. III-A D. VII-A
36	The most reactive elements are:	A. Group IV-A B. Group V-A C. Group VI-A D. Group VII -A
37	Smell of halogens is:	A. Fruity B. Sweet C. Irritating D. Rotten egg
38	Oxidation state of fluorine is:	A. +1 B. +2 C. -1 D. -2
39	Gaseous HF exists in the form of	A. Monomers B. Cyclic hexamers C. As single entity D. Both (a) and (b)
40	Nobel gases are placed group:	A. Group IV-A B. Group V-A C. Group VI-A D. Group VII-A
41	Halogens are called.	A. salt former B. Light bearing C. copper forming D. None of these
42	Radioactive element in halogens is	A. Astatine B. bromine C. Iodine D. Fluorine
43	Molecule of halogens exist as	A. Monatomic B. Diatomic C. Triatomic D. Polyatomic
44	Colour of fluorine gas is	A. Pale yellow B. Greenish yellow C. Red brown D. greyish black
45	Colour of chlorine is	A. Pale yellow B. Greenish yellow C. Red brown D. Greyish black
46	Colour of bromine is	A. Pale yellow B. Greenish yellow C. Red brown D. Greyish black
47	Colour of Iodine is	A. Pale yellow B. Greenish yellow C. Red brown D. Greyish black
48	Half life of most stable isotope of astatine is	A. 8.0 hrs B. 8.1 hrs C. 8.2 hrs D. 8.3 hrs
49	A property which differs fluorine from the other halogens?	A. Direct combination with inert gases B. Uninegative C. Diatomic D. ns ² , np ⁵
50	Which is volatile liquid?	A. HF B. HCl C. HBr D. HI

A. HF
 B. HCl

51	The strongest hydrogen bond is in	B. HCl C. HBr D. HI
52	The compound with cyclic hexamer is	A. HF B. HCl C. HBr D. HI
53	The strongest acid is	A. HF B. HCl C. HBr D. HI
54	Perchloric acid can be stored in solution form	A. 47% B. 57% C. 67% D. 77%
55	Bleaching powder is prepared by the reaction of Cl ₂ with.	A. Lime stone B. Lime water C. slaked lime D. Lime
56	Bleaching powder is agent:	A. Dehydrating B. Oxidizing C. reducing D. all
57	The available chlorine in bleaching powder is	A. 25-30% B. 30-35% C. 35-40% D. 40-45%
58	Corrosion proof parts of machinery are prepared from	A. Iron B. Copper C. Plastic D. Teflon
59	Non sticking coating in cooking utensils is done by	A. Iron B. Copper C. Plastic D. Teflon
60	Used in tooth pastes is	A. Fluorides B. Iodides C. halides D. nitrides
61	The noble gases are	A. Mono atomic B. Diatomic C. Polyatomic D. All
62	Noble gases in the atmosphere are	A. 4% B. 3% C. 2% D. 1%
63	Which is present as a result of radioactive decay on earth?	A. He B. Ne C. Ar D. Kr
64	Second most element in the universe is	A. He B. Ne C. Ar D. Kr