

ECAT Chemistry Chapter 15 Group IV-A and VI-A Elements Online Test

Sr	Questions	Answers Choice
1	Out of all the elements of group V-A, the highest ionization energy is possessed by	A. N B. P C. Sb D. Bi
2	Among group V-A elements, the most electronegative element is	A. Sb B. N C. P D. As
3	Oxidation of NO in air produces	A. N_2O B. N_2O_3 C. N_2O_4 D. N_2O_5
4	The brown gas formed when metal reduces HNO_3 is	A. N_2O_5 B. N_2O_3 C. NO_2 D. NO
5	Laughing gas is chemically	A. NO B. N_2O C. NO_2 D. N_2O_4
6	Out of all the elements of group VI-A the highest melting and boiling points is shown by the element	A. Te B. Se C. S D. Pb
7	SO_3 is not absorbed in water directly to form H_2SO_4 because	A. the reaction does not go to completion. B. the reaction is quite slow. C. the reaction is exothermic. D. SO_3 is insoluble in water.
8	Which catalyst is used in contact process?	A. Fe_2O_3 B. V_2O_5 C. SO_3 D. Ag_2O
9	Which of the following species has the maximum number of unpaired electrons?	A. O_2 B. O_2^{+} C. O_2^{-} D. O_2^{2-}
10	Which has garlic like odour?	A. N_2O B. NO C. NO_2 D. NH_4
11	Reaction of HNO_3 with very dilute Zinc and at low temperature gives	A. H_2 B. NO C. NO_2 D. NH_4
12	Tungsten and uranium are dissolved in a reaction with HNO_3	A. Oxides B. Chlorides C. Nitrides D. Nitrates
13	NO_2 forms acidic solution	A. Red B. Blue C. Green D. Brown
14	Aqua Regia has ratio of conc. HCl and HNO_3	A. 1 : 2 B. 1 : 3 C. 1 : 4 D. 2 : 3
15	Which phosphorus is the most poisonous?	A. White B. Red C. Black D. ...

		D. All
16	Nitrogen is present in atmosphere by weight	A. 75% B. 76% C. 77% D. 78%
17	Which are metalloid?	A. Nitrogen and phosphorous B. Arsenic and phosphorous antimony C. Phosphorous and arsenic D. Antimony and bismuth
18	Calcium carbonate contains oxygen in it	A. 48% B. 50% C. 53% D. 60%
19	Sulphuric acid is used	A. As fertilizers B. As dehydrating agent C. As oxidizing agent D. All above
20	Which is aqua regia?	A. HCL : NO B. HCl : HNO_3 C. HCl : H_2SO_4 D. H_2SO_4 : HNO_3
21	Which is laughing gas?	A. NO B. N_2O C. NO_2 D. NO_3
22	Which can be prepared from HNO_3 ?	A. T.N.T B. Fertilizers C. Picric acid D. All of these
23	Formation of NO from N_2 and O_2 requires temp	A. 30°C B. 300°C C. 3000°C D. 30000°C
24	Which is nitrous acid?	A. HNO_3 B. HNO C. HNO_2 D. H_2NO_3
25	Which has sweetish taste?	A. N_2O B. NH_3 C. Cl_2 D. CO_2
26	Which gas is heavier than air?	A. CO_2 B. NH_3 C. Cl_2 D. CO_2
27	Which element belongs to group V-A?	A. Cs B. Ba C. Sr D. Bi
28	What are non-metals?	A. Sb & Bi B. P & Bi C. N & P D. As & N
29	Which property is not present in non-metals?	A. Predominantly covalent B. Poor conductor C. High E.N. value D. High electropositivity
30	Which element of group IV-A does not use d — orbital?	A. N B. P C. As D. Sb
31	Out of all the elements of group V-A, the highest ionization energy is possessed by:	A. N B. P C. Sb D. Bi
32	Among group V-A elements, the most electronegative element is:	A. Sb B. N C. P D. As

33	Out of all the elements of group VI-A the highest melting and boiling points is shown by the elements:	A. Te B. Se C. S D. Pb
34	SO ₂ is not absorbed in water directly to form H ₂ SO ₄ because:	A. The reaction does not go to completion B. the reaction is quite slow C. the reaction is exothermic D. SO ₂ is insoluble in water
35	Tungsten and Uranium are not in a reaction with HNO ₃ :	A. Oxides B. chlorides C. Nitrides D. Nitrates
36	NO ₂ forms acidic solution:	A. Red B. Blue C. Green D. Brown
37	Aqua Regia has ratio of conc. HCl and HNO ₃ .	A. 1 : 2 B. 1 : 3 C. 1 : 4 D. 2 : 3
38	Nitrogen is present in atmosphere by weight:	A. 75% B. 76% C. 77% D. 78%
39	Calcium carbonate contains oxygen in it:	A. 48% B. 50% C. 53% D. 60%
40	Which property is not present in non-metals:	A. Predominantly covalent B. Poor conductor C. High E.N. Value D. High electropositivity
41	Which element of group IV-A does not use d-orbital?	A. N B. P C. As D. Sb
42	Nitrogen is present in atmosphere	A. 21% B. 36% C. 89% D. 78%
43	Nitrogen is present in atmosphere	A. 36% B. 78% C. 89% D. 21%
44	Which is an inert gas?	A. Nitrogen B. Oxygen C. Hydrogen D. CO
45	Ring test is given by ions.	A. Nitrides B. Nitrates C. Cyanates D. Nitriles
46	Colour of N ₂ O ₄ is	A. Raddish brown B. Yellow C. Colourless D. green
47	Specific gravity of HNO ₃ is	A. 1.35 B. 1.53 C. 1.39 D. 1.93
48	Phosphorus belongs to a group	A. III-A B. IV-A C. V-A D. VI-A
49	Bone ash contains calcium phosphate	A. 70% B. 80% C. 90% D. 100%

A. three

50	Allotropic forms of phosphorus are	B. four C. five D. six
51	Structure of P_4 is	A. Trigonal B. Tetragonal C. Hexagonal D. Monoclinic
52	Which is the most reactive?	A. White phosphorus B. Red Phosphorus C. Graphite D. Plastic sulphur
53	The most stable phosphorus allotrope is	A. White B. Red C. Black D. All
54	Colour of PCl_5 is:	A. Red B. Yellowish White C. Grey D. Colourless
55	Group VI-A elements are called:	A. Halogens B. Electron deficient C. alkaline earth metal D. Chalcogens
56	All elements of group VI-A non-metal except	A. Te B. S C. Se D. Po
57	Allotropic forms of oxygen Te, Se are	A. Two B. Three C. Four D. Five
58	Allotropic forms of sulphur are	A. Two B. Three C. Four D. Five