

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

Sr	Questions	Answers Choice
1	NO ₂ forms acidic solution	A. Red B. Blue C. Green D. Brown
2	Which gas is heavier than air?	A. CO ₂ B. NH ₃ C. Cl ₂ D. CO ₂
3	Which element of group IV-A does not use d-orbital?	A. N B. P C. As D. Sb
4	Aqua Regia has ratio of conc. HCl and HNO ₃	A. 1 : 2 B. 1 : 3 C. 1 : 4 D. 2 : 3
5	Which property is not present in non-metals	A. Predominantly covalent B. Poor conductor C. High E.N. value D. High electropositivity
6	Which is an inert gas?	A. Nitrogen B. Oxygen C. Hydrogen D. CO
7	Tungsten and Uranium are turned to an reaction with HNO ₃ :	A. Oxides B. chlorides C. Nitrides D. Nitrates
8	Colour of PCl ₅ is:	A. Red B. Yellowish White C. Grey D. Colourless
9	Which catalyst is used in contact process?	A. Fe ₂ O ₃ B. V ₂ O ₅ C. SO ₃ D. Ag ₂ O
10	Among group V-A elements, the most electronegative element is:	A. Sb B. N C. P D. As
11	Group VI-A elements are called:	A. Halogens B. Electron deficient C. alkaline earth metal D. Chalcogens
12	Aqua Regia has ration of conc. HCl and HNO ₃ .	A. 1 : 2 B. 1 : 3 C. 1 : 4 D. 2 : 3
13	Which has sweetish taste?	A. N ₂ O B. NH ₃ C. Cl ₂ D. CO ₂
14	Nitrogen is present in atmosphere by weight:	A. 75% B. 76% C. 77% D. 78%
15	Which is laughing gas?	A. NO B. N ₂ O C. NO ₂ D. NO ₃

16	Out of all the elements of group V-A , the highest ionization energy is possessed by:	A. N B. P C. Sb D. Bi
17	Structure of P ₄ is	A. Trigonal B. Tetragonal C. Hexagonal D. Monoclinic
18	What are non-metals?	A. Sb & Bi B. P & Bi C. N & P D. As & N
19	Allotropic forms of oxygen Te, Se are	A. Two B. Three C. Four D. Five
20	Formation of NO from N ₂ and O ₂ requires temp	A. 30 ⁰ C B. 300 ⁰ C C. 3000 ⁰ C D. 30000 ⁰ C
21	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
22	Nitrogen is present in atmosphere	A. 36% B. 78% C. 89% D. 21%
23	Calcium carbonate contains oxygen in it	A. 48% B. 50% C. 53% D. 60%
24	Out of all the elements of group V-A, the highest ionization energy is possessed by	A. N B. P C. Sb D. Bi
25	Which phosphorus is the most poisonous?	A. White B. Red C. Black D. All
26	Which element belongs to group V-A?	A. Cs B. Ba C. Sr D. Bi
27	Laughing gas is chemically	A. NO B. N ₂ O C. NO ₂ D. N ₂ O ₄
28	SO ₃ is not absorbed in water directly to or 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 ₃ is insoluble in water.
29	Calcium carbonates contains oxygen in it:	A. 48% B. 50% C. 53% D. 60%
30	Which property is not present in non-metals:	A. Predominantly covalent B. Poor conductor C. High E.N. Value D. High electropositivity
31	Which can be prepared from HNO ₃ ?	A. T.N.T B. Fertilizers C. Picric acid D. All of these
32	Specific gravity of HNO ₃ is	A. 1.35 B. 1.53 C. 1.39 D. 1.93

A. White

33	The most stable phosphorus allotrope is	A. White B. Red C. Black D. All
34	Bone ash contains calcium phosphate	A. 70% B. 80% C. 90% D. 100%
35	NO ₂ forms acidic solution:	A. Red B. Blue C. Green D. Brown
36	Phosphorus belongs to a group	A. III-A B. IV-A C. V-A D. VI-A
37	The brown gas formed when metal reduces HNO ₃ is	A. N ₂ O ₅ B. N ₂ O ₃ C. NO ₂ D. NO
38	Oxidation of NO in air produces	A. N ₂ O B. N ₂ O ₃ C. N ₂ O ₄ D. N ₂ O ₅
39	Ring test is given by ions.	A. Nitrides B. Nitrates C. Cyanates D. Nitriles
40	Which element of group IV-A does not use d — orbital?	A. N B. P C. As D. Sb
41	Which is the most reactive?	A. White phosphorus B. Red Phosphorus C. Graphite D. Plastic sulphur
42	Reaction of HNO ₃ with very dilute Zinc and at low temperature gives	A. H ₂ B. NO C. NO ₂ D. NH ₄
43	Which is aqua regia?	A. HCl : NO B. HCl : HNO ₃ C. HCl : H ₂ SO ₄ D. H ₂ SO ₄ : HNO ₃
44	Nitrogen is present in atmosphere	A. 21% B. 36% C. 89% D. 78%
45	All elements of group VI-A non-metal except	A. Te B. S C. Se D. Po
46	Allotropic forms of sulphur are	A. Two B. Three C. Four D. Five
47	Which has garlic like odour?	A. N ₂ O B. NO C. NO ₂ D. NH ₄
48	Which are metalloids?	A. Nitrogen and phosphorus B. Arsenic and phosphorous antimony C. Phosphorous and arsenic D. Antimony and bismuth
49	Allotropic forms of phosphorus are	A. three B. four C. five D. six
50	Sulphuric acid is used	A. As fertilizers B. As dehydrating agent C. As oxidizing agent

		<p>D. All above</p>
51	Which is nitrous acid?	<p>A. HNO_3 B. HNO C. HNO_2 D. H_2NO_3</p>
52	Which of the following species has the maximum number of unpaired electrons?	<p>A. O_2 B. O_2^{+} C. O_2^{-} D. O_2^{2-}</p>
53	Tungsten and uranium are turned to an reaction with HNO_3	<p>A. Oxides B. Chlorides C. Nitrides D. Nitrates</p>
54	Colour of N_2O_4 is	<p>A. Raddish brown B. Yellow C. Colouries D. green</p>
55	Among group V-A elements, the most electronegative element is	<p>A. Sb B. N C. P D. As</p>
56	Nitrogen is present in atmosphere by weight	<p>A. 75% B. 76% C. 77% D. 78%</p>
57	Out of all the elements of group V1-A the highest melting and boiling points is shown by the element	<p>A. Te B. Se C. S D. Pb</p>
58	SO_2 is not absorbed in water directly to or H_2SO_4 because:	<p>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</p>