

## Nitrogen and Sulfur

Sr	Questions	Answers Choice
1	Which gas is used in separating hard water from normal water.	A. NH <sub>3</sub> B. SO <sub>2</sub> C. H <sub>2</sub> S D. NO <sub>2</sub>
2	Sulfur dioxide produced from the combustion of sulfur can be further oxidized to sulfur trioxide under specific conditions, such as in the presence of a.	A. Catalyst and high temperature B. Catalyst and low temperature C. Strong reducing agent and high pressure D. Dilute acid and room temperature
3	The ability to form large rings and long chains is called.	A. Sulfonation B. Catenation C. Alkylation D. All above options are same
4	Common bonding exhibited by sulfur is.	A. Ionic bond B. Covalent bond C. Coordinate covalent bond D. Metallic bond
5	Bond energy of nitrogen is	A. +944 kJmol <sup>-1</sup> B. +844 kJ mol <sup>-1</sup> C. +1000 kJ mol D. +888 kJ mol
6	Electro negativity of nitrogen is	A. 2.5 B. 3.0 C. 4.0 D. None of these
7	IUPAC name of ammonia is	A. Azane B. Azanium C. Azole D. None of these
8	The most stable species in an acidic environment is.	A. SO <sub>2</sub> <sup>2-</sup> B. SO <sub>2</sub> C. H <sub>2</sub> S D. S
9	Main fuel in gun powder is	A. Charcoal carbon B. Nitrite C. Sulfur D. None of these
10	When sulfuric acid reacts with table sugar, a black porous mass is obtained which is	A. Carbon B. Sulfur C. Nitrogen D. Alcohol
11	In contact process, arsenic purifier uses..... for absorption of arsenic oxide.	A. Vanadium pentoxide B. Galatinous ferric hydroxide C. Iron pyrite D. None of these
12	The oxidation state of sulfur in H <sub>2</sub> SO <sub>4</sub>	A. +1 B. +4 C. +6 D. +2
13	Most common oxidation states of sulfur are.	A. 5+ and 6+ B. 4+ and 6+ C. 4+ and 8+ D. 0 and 1+
14	Relative atomic mass of sulfur is	A. 32.06 a.m.u B. 31.06 a.m.m C. 39.06 a.m.u D. 30.6 a.m.m
15	Omeprazole is used for the treatment of	A. Asthma B. Gastroesophageal reflux disease C. Both a and b D. None of these

		D. None of these
16	The shape of ammonium is	A. Pyramidal B. Triangular planar C. Tetrahedral D. Linear
17	In contact process arsenic purifier uses.....for absorption of arsenic oxide.	A. Gelatinous ferric hydroxide B. Vanadium pentoxide C. Iron pyrite D. None of above
18	Which of the following is used as raw material in contact process	A. Sulfur B. Iron pyrite C. Both a and b D. None of these
19	Classical smog is	A. Oxidation B. Reducing C. Both oxidizing and reducing D. None of these
20	Sulfur trioxide is not directly dissolved in water to produce sulfuric acid in the contact process because this reaction is.	A. Too slow B. Highly exothermic and produces a mist of sulfuric acid C. Reversible and would result in a low yield D. Requires very high pressures