NAT II Physical Science Chemistry

Sr	Questions	Answers Choice
1	Addition of iron fillings to $CuSO_4$solution caused precipitation of Cu owing to the	A. Reduction of Cu²⁺ B. Oxidation of Cu²⁺ C. Reduction of Fe D. Reduction of Fe³⁺
2	Bell metal is an alloy of	A. Cu, Zn and Sn B. Cu, Zn and Ni C. Cu and Zn D. Cu and Sn
3	The structure of XeF6	A. Distorted octahedral B. Pyramidal C. Tetrahedral D. None of the above
4	Helium-oxygen mixture is used by deep sea divers in preference to nitrogen-oxygen mixture because	A. Helium is much less soluble in blood than nitrogen B. Helium is much less soluble in blood than helium C. Under the sea nitrogen and oxygen react to give poisonous nitric oxide D. Nitrogen is highly soluble in water.
5	The following has zero valency	A. Na B. Be C. Al D. Kr
6	A clathrate may be defined as a	A. Cage compound B. Liquid crystal C. Mixture D. Solid solution
7	Which of the following fluorides of xenon is impossible?	A. XeF₂ B. XeF₃ C. XeF₄ D. XeF₆
8	The spectrum of helium is expected to be similar to that of	A. H B. Li⁺ C. Na D. He⁺
9	The density of nitrogen gas prepared from air is slightly greater than that of nitrogen prepare by a chemical reaction form a compound of nitrogen due to the presence of the following in aerial nitrogen.	A. Argon B. CO₂ C. Some nitrogen molecules analogous to O2 D. Greater amount of nitrogen molecules derived from N¹⁵isotope.
10	Which of the following is monoatomic?	A. Oxygen B. Neon C. Fluorine D. Nitrogen.
11	If one litre of air is passed repeatedly over heated copper and magnesium till no further reduction in volume takes place, the volume finally obtained would be approximately	A. 800mL B. 200mL C. 10mL D. Zero
12	The last orbit of argon would have electrons	A. 8 B. 18 C. 2 D. 6
13	Which for the following has greatest reducing power?	A. HI B. HBr C. HCl D. HI
14	Which of the following belongs to the halogen family?	A. Francium B. Polonium C. Radium

		D. Astatine
15	Fluorine does not show positive oxidation states due to the absence of	A. d-orbitals B. s-orbitals C. p-orbitals D. None