

NAT II Biological Science Chemistry

Sr	Questions	Answers Choice
1	Rusting of iron is catalysed by	A. Fe B. O_2 C. Zn D. H^+
2	Which has largest radius?	A. CO^{3+} B. Mn^{3+} C. Fe^{3+} D. Cr^{3+}
3	Which of the following metal exhibits more than one oxidation?	A. Na B. Mg C. Fe D. Al
4	Which of the following transition metal ions will have definite value of magnetic moment?	A. Sc^{3+} B. Ti^{3+} C. Cu^{+} D. Zn^{2+}
5	Iron, once dipped in concentrated H_2SO_4 , does not displace copper from copper sulphates solution, because	A. It is less reactive than copper B. A layer of sulphates is deposited on it C. An inert layer of iron oxide is deposited on it. D. All valence electrons of iron are consumed.
6	Addition of iron fillings to $CuSO_4$ solution caused precipitation of Cu owing to the	A. Reduction of Cu^{2+} B. Oxidation of Cu^{2+} C. Reduction of Fe D. Reduction of Fe^{3+}
7	Bell metal is an alloy of	A. Cu, Zn and Sn B. Cu, Zn and Ni C. Cu and Zn D. Cu and Sn
8	The structure of XeF_6	A. Distorted octahedral B. Pyramidal C. Tetrahedral D. None of the above
9	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.
10	The following has zero valency	A. Na B. Be C. Al D. Kr
11	A clathrate may be defined as a	A. Cage compound B. Liquid crystal C. Mixture D. Solid solution
12	Which of the following fluorides of xenon is impossible?	A. XeF_2 B. XeF_3 C. XeF_4 D. XeF_6
13	The spectrum of helium is expected to be similar to that of	A. H B. Li^+ C. Na D. He^+
14	The density of nitrogen gas prepared from air is slightly greater than that of nitrogen	A. Argon B. CO_2 C. Some nitrogen molecules

14	prepare by a chemical reaction from a compound of nitrogen due to the presence of the following in aerial nitrogen.	analogous to O ₂ D. Greater amount of nitrogen molecules derived from N ¹⁵ isotope.
15	Which of the following is monoatomic?	A. Oxygen B. Neon C. Fluorine D. Nitrogen.
16	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
17	The last orbit of argon would have electrons	A. 8 B. 18 C. 2 D. 6
18	Which of the following has greatest reducing power?	A. HI B. HBr C. HCl D. H ₂
19	Which of the following belongs to the halogen family?	A. Francium B. Polonium C. Radium D. Astatine
20	Fluorine does not show positive oxidation states due to the absence of	A. d-orbitals B. s-orbitals C. p-orbitals D. None