

NAT II Physical Science Chemistry

Sr	Questions	Answers Choice
1	Wholer prepared urea from	A. Ammonia B. NH_4CNO C. NH_3 D. Uric acid
2	Outermost shells of two elements X and Y have two and six electrons respectively. If they combine, the expected formula of compound will be	A. XY B. X_2Y C. X_2Y_3 D. XY_2
3	Octane number is zero for	A. n-Heptane B. Isooctane C. n-Hexane D. Isoheptane
4	Bond angle is minimum for	A. H_2O B. H_2S C. H_2Se D. H_2Te
5	Which inorganic precipitate acts as semipermeable membrane?	A. Calcium sulphate B. Barium oxalate C. Nickel phosphate D. Copper ferrocyanide
6	Which of the following units represents largest amount of energy?	A. Calorie B. Joule C. Erg D. Electron vol.
7	If the solvent is inflammable for heating purpose we use	A. Ice bath B. Water bath C. Wire gauze D. Thermostat
8	A clathrate may be defined as a	A. Cage compound B. Liquid crystal C. Mixture D. Solid solution
9	Acid rains are produced by	A. Excess NO_2 and SO_2 from burning fossil fuels B. Excess production of NH_3 by industry and coal gas C. Excess release of carbon monoxide by incomplete combustion D. Excess formation of CO_2 by combustion and animal respiration
10	Which of the following statement regarding catalyst is not true?	A. A catalyst remains unchanged in composition and quantity at the end of the reaction B. A catalyst can initiate a reaction C. A catalyst dose not alter the equilibrium in a reversible reaction D. Catalysts are sometimes very specific in respect of reaction.
11	Dolomite has the composition	A. $\text{KCl} \cdot \text{MgCl}_2 \cdot 6\text{H}_2\text{O}$ B. Na_3AlF_6 C. $\text{CaCO}_3 \cdot \text{MgCO}_3$ D. $\text{CaCl}_2 \cdot \text{MgCl}_2 \cdot 6\text{H}_2\text{O}$
12	The total pressure exerted by a number of non-reacting gases is equal to the sum of partial pressure of the gases under the same conditions is known as	A. Boyle's law B. Charle's law C. Avogadro's law D. Dalton's law
13	According to MO theory, the species O_2^+	A. Bond order of 2.5 B. Three unpaired electrons C. Diamagnetic character D. Stability lower then O_2
14	Dilute hydrochloric acid solution cannot be concentrated by boiling beyond	A. 11% B. 33%

		C. 44% D. 22%
15	Ionic solids with defects, contain	A. Equal number of cation and anion vacancies B. Interstitial anions and anion vacancies C. Cation vacancies only D. Cation vacancies and interstitial cations
16	Toluene can be oxidized to benzoic acid by	A. KMnO_4 (alk) B. $\text{K}_2\text{Cr}_2\text{O}_7$ (acidic) C. Both D. None
17	The order of reactivity of halogens in aliphatic substitution reactions is	A. $\text{Br}_2 > \text{Cl}_2 > \text{F}_2$ B. $\text{Cl}_2 > \text{Br}_2 > \text{F}_2$ C. $\text{Cl}_2 > \text{Br}_2 > \text{F}_2$ D. $\text{F}_2 > \text{Br}_2 > \text{Cl}_2$
18	Sulphure dioxide affects	A. Cell wall B. Plasmodesmata C. All membrane systems D. Nucleus
19	Which has largest radius?	A. Co^{3+} B. Mn^{3+} C. Fe^{3+} D. Cr^{3+}
20	How many kinds of space lattices are possible in a crystal?	A. 23 B. 7 C. 230 D. 14