

## NAT II Physical Science Chemistry

Sr	Questions	Answers Choice
1	Which of the following imparts violet colouration to non-luminous flame of Bunsen burner?	A. $\text{NaCl}_{2}$ B. $\text{BaCl}_{2}$ C. $\text{CaCl}_{2}$ D. $\text{KCl}$
2	During the folding of filter paper the apex form angle of about	A. $80^{\circ}$ B. $60^{\circ}$ C. $180^{\circ}$ D. $90^{\circ}$
3	In which of the following elements +1 oxidation state is more stable than +3	A. B B. Al C. Ga D. Ti
4	Hydrogen chloride molecule contains	A. Covalent bond B. Double bond C. Co-ordinate bond D. Electrovalent bond
5	1-Chloropropane has two isomers. It is an example of	A. Chain isomerism B. Position isomerism C. Function group isomerism D. Meramerism
6	Which of the following has least mass?	A. 2 gram atom of nitrogen B. $3 \times 10^{23}$ atoms of C C. 1 mole of S D. 7.0 g of Ag.
7	Which one of the following elements occurs free in nature?	A. N B. P C. As D. Sb
8	The last orbit of argon would have electrons	A. 8 B. 18 C. 2 D. 6
9	Chief air pollutant which is likely to deplete ozone layer	A. Sulphure dioxide B. Carbon dioxide C. Carbon dioxide D. Nitrogen oxides and chloro fluorocarbons
10	Gooch Crucible used to filter the solution of	A. $\text{H}_{2}\text{SO}_{4}$ B. HCl C. $\text{KMnO}_{4}$ D. Both B & C
11	Which of the following belongs to the halogen family?	A. Francium B. Polonium C. Radium D. Astatine
12	Which of the following compounds has the lowest anion to cation size ratio?	A. LiF B. NaF C. CsI D. CsF
13	Hybridization explain the ----- of orbitals	A. Type of Bonding B. Shapes C. Shape and Type of bonding D. None of above
14	The IUPAC name of the compound having the formula $(\text{CH}_3)_3\text{C} - \text{CH} = \text{CH}_2$ is	A. 1, 1-Dimethyl-3-butene B. 1, 1, 1-Trimethyl-3-propene C. 3, 3,-Dimethyl-1-butene D. 3, 3, 3,-Trimethyl-1-propene
15	Which of the following statements is most appropriate about effective nuclear charge? It depends upon	A. The shielding constant B. The atomic number C. The charge on the nucleus D. ...

		D. Both the nuclear charge and the shielding
16	The dimension of rate constant of second order reaction involves	A. Neither time nor concentration B. Only time C. Time and concentration D. Time and square of concentration
17	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.
18	Which species represents the electrophile in aromatic nitration?	A. $\text{NO}^-$ B. $\text{NO}^+$ C. $\text{NO}_2$ D. $\text{NO}^-$
19	The most reactive compound for electrophilic nitration will be	A. Benzyl chloride B. Benzoic acid C. Nitrobenzene D. Chlorobenzene
20	Which of the following has linear shape?	A. $\text{SP}$ B. $\text{SP}^2$ C. $\text{SP}^3$ D. None of the above