

NAT II Physical Science Chemistry

Sr	Questions	Answers Choice
1	When electrons revolve in stationary orbits,	A. There is no change in energy level B. They become stationary C. They are gaining kinetic energy D. There is increase in energy
2	Which of the following reagent cannot be used for preparing alkyl chloride from alcohol?	A. $\text{HCl} + \text{anhyd. ZnCl}_2$ B. NaCl C. PCl_5 D. SOCl_2
3	The unit rate of a reaction can be increased in general by all the factors except by	A. Using a catalyst B. Increasing temperature C. Increasing the activation energy D. Increasing the conc. of reactants
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	Which has maximum protein content?	A. Ground nut B. Cow milk C. Egg D. Wheat
6	Benzene is obtained by fractional distillation of	A. Heavy oil B. Anthracene oil C. Middle oil D. Light oil
7	The total number of protons in 10 g of calcium carbonate is ($N_0 = 6.023 \times 10^{23}$)	A. 1.5057×10^{24} B. 2.0478×10^{24} C. 3.0115×10^{24} D. 4.0956×10^{24}
8	Acetic anhydride is obtained from acetyl chloride by the reaction of	A. P_2O_5 B. H_2SO_4 C. CH_3COONa D. CH_3COCH_3
9	Which of the following method is most appropriate for the manufacture of methane?	A. By reduction of CH_2SL_2 B. Wurtz reaction C. Liquefaction of natural gas D. None of these
10	The kinetic theory of gases predicts that total kinetic energy of a gaseous assemble depends on	A. Pressure of the gas B. Temperature of the gas C. Volume of the gas D. Pressure, temperature, and volume of the gas.
11	Which of the following fluorides of xenon is impossible?	A. XeF_2 B. XeF_3 C. XeF_4 D. XeF_6
12	Dilute hydrochloric acid solution cannot be concentrated by boiling beyond	A. 11% B. 33% C. 44% D. 22%
13	The ratio of close packed atoms to tetrahedral holes in cubic close packing is	A. 1 : 1 B. 1 : 2 C. 1 : 3 D. 2 : 1
14	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. $\text{CaCl}_2 \cdot \text{MgCl}_2 \cdot 6\text{H}_2\text{O}$

15	Alum is not used	A. As a mordant in dyeing B. As an insecticide C. In purification of water D. In tanning of leather
16	With increasing principle quantum number, the energy difference between adjacent energy levels in H atom	A. Decreases B. Increases C. Remain constant D. Decreases for low value of Z and increases for higher value of Z.
17	The structure of XeF ₆	A. Distorted octahedral B. Pyramidal C. Tetrahedral D. None of the above
18	The maximum number of electrons in a subshell for which $l = 3$ is	A. 14 B. 10 C. 8 D. 4
19	Potassium is kept in	A. Water B. Ammonia C. Alcohol D. Kerosene.
20	The movement of solvent molecules through a semipermeable membrane is called	A. Electrolysis B. Electrophoresis C. Osmosis D. Cataphoresis