

NAT II Physical Science Chemistry

Sr	Questions	Answers Choice
1	Which of these is the most widely used nitrogen fertilizer in Pakistan	A. Urea B. Ammonium nitrate C. Ammonium Sulphate D. Ammonium chloride
2	Each of following is true of white and red phosphours except that they	A. Are both soluble in CS ₂ B. Can be oxidized by heating in air C. Consist of the same kind of atoms D. Can be converted into one another
3	All the naturally occurring processes proceed spontaneously in a direction which lead to	A. Decrease of entropy B. Increase of enthalpy C. Increase of free energy D. Decrease of free energy
4	Which of the following compounds has the lowest anion to cation size ratio?	A. LiF B. NaF C. CsI D. CsF
5	Octane number can be changed by	A. Isomerisation B. alkylation C. Cyclisation D. All of these
6	Acetylene gives	A. White ppt. with ammonical AgNO ₃ and red ppt. with ammonical Cu(NO ₃) ₂ B. White ppt. with ammonical AgNO ₃ and red ppt. with ammonical Cu ₂ Cl ₂ C. White ppt. with both D. Red ppt. with both
7	Hypo is used to photography for	A. Developing picture B. Picture printed C. The colour of picture D. The fixation of picture
8	The number of oxygen atoms in 4.4 g of CO ₂ is approximately	A. 1.2×10^{23} B. 6×10^{22} C. 6×10^{23} D. 12×10^{23}
9	In cold countries ethylene glycol is added to water in radiators of cars during winter. It results in	A. Lowering in b.pt. B. Reducing viscosity C. Reducing specific heat D. Lowering in freezing pt.
10	Bromine is obtained on a commercial scale from	A. Caliche B. Carnallite C. Common satl D. Cryolite
11	Which of the following with aqueous KOH will give acetaldehyde?	A. 1, 2-Dichloroethane B. 1, 1-Dichloroethane C. Chloroacetic acid D. Ethyl chloride
12	Cyclone collector is used for minimizing	A. Radioactive pollution B. Air pollution C. Noise pollution D. Water pollution

A. n

text-align: center; background-color: rgb(255, 255, 248);><i></i>= 2<i></i><i>θ</i>sin<i></i>

13	Bragg's law is given by equation	<p>background-color: rgb(255, 255, 248);">><i>θ</i></p> <p>B. $n \sin \theta = 2 d \sin \theta$</p> <p>C. $2 n \sin \theta = d \sin \theta$</p> <p>D. $n \sin \theta = \frac{1}{2} d \sin \theta$</p>
14	Variable valency is generally exhibited by	<p>A. Normal elements</p> <p>B. Transition elements</p> <p>C. Metallic elements</p> <p>D. None of these.</p>
15	An endothermic reaction is one in which the reacting substances	<p>A. Have more energy than the products</p> <p>B. Have less energy than the products</p> <p>C. Have the same energy as the products</p> <p>D. Are at a higher temperature than the products.</p>
16	Inter molecular forces in solid hydrogen are	<p>A. Covalent forces</p> <p>B. Van der Waal forces or London dispersion forces</p> <p>C. Hydrogen bonds</p> <p>D. All of these.</p>
17	The osmotic pressure of solution increases if	<p>A. Temperature is decreased</p> <p>B. Solution constant is increased</p> <p>C. Number of solute molecules are increased</p> <p>D. Volume is increased</p>
18	Enzymes are	<p>A. Proteins</p> <p>B. Minerals</p> <p>C. Oils</p> <p>D. Fatty acids</p>
19	According to MO theory, the species O_2^+	<p>A. Bond order of 2.5</p> <p>B. Three unpaired electrons</p> <p>C. Diamagnetic character</p> <p>D. Stability lower than O_2</p>
20	Which of the following has least mass?	<p>A. 2 gram atom of nitrogen</p> <p>B. 3×10^{23} atoms of C</p> <p>C. 1 mole of S</p> <p>D. 7.0 g of Ag.</p>