

## NAT I Medical Chemistry

Sr	Questions	Answers Choice
1	On heating acetaldehyde with ammonical silver nitrate solution we get	A. $\text{CH}_3\text{COOH}$ B. Silver acetate C. HCHO D. Silver mirror
2	Which is not a colligative property?	A. Osmotic pressure B. Lowering of vapour pressure C. Depression of freezing point D. Elevation of boiling point
3	Dehydration of glycerol give	A. Propane B. Propene C. Acrolein D. Benzene
4	The kinetic theory of gases predicts that total kinetic energy of a gaseous assembly 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
5	Cannizzaro reaction is not given by	A. Trimethyl acetaldehyde B. Acetaldehyde C. Benzaldehyde D. Formaldehyde
6	Phosphide ion has the electronic structure similar to that of	A. Nitride ion B. Fluoride ion C. Sodium ion D. Chloride ion
7	The maximum number of electrons in a subshell for which $l = 3$ is	A. 14 B. 10 C. 8 D. 4
8	Setting of plaster of paris involves	A. Oxidation with atmospheric oxygen B. Combination with atmosphere $\text{CO}_2$ C. Dehydration D. Hydration to yield another hydrate.
9	Natural fertilizer from plants and animals provide nitrogen	A. <span style="font-size: 14px;">1.5 kg</span> B. <span style="font-size: 14px;">3.0 kg</span> C. <span style="font-size: 14px;">4.5 kg</span> D. <span style="font-size: 14px;">6 kg</span>
10	Fertilizer are made by	A. Nature only B. Artificial methods only C. Both artificial and natural methods D. None of the above
11	In a crystal $a \neq b \neq c$ , $\alpha = \gamma = 90^\circ$ and $\beta \neq 90^\circ$ , it is	A. Monoclinic B. Rhombic C. Trigonal D. Tetragonal
12	Hess's law deals with	A. Changes in heat or reaction B. Rate of reaction C. Equilibrium constant D. Influence of pressure on volume of a gas
13	The last orbit of argon would have electrons	A. 8 B. 18 C. 2 D. 6

A. Cryolite  
B. M...

14	Which of the following mineral does not contain Al?	<p>14.44444465637207px;"&gt;Mica</p> <p>C. <span style="font-size: 14.44444465637207px;">Feldspar</span></p> <p>D. <span style="font-size: 14.44444465637207px;">Fluorspar</span></p>
15	How many moles of Helium gas occupy 22.4 L at 0°C at 1 atm. Pressure?	<p>A. 0.11</p> <p>B. 0.90</p> <p>C. 1.0</p> <p>D. 1.11</p>
16	Carbon atom holding halogen in aryl halides is	<p>A. <math>sp^2</math>-hybridised</p> <p>B. <span style="font-size: 14.44444465637207px;"><math>sp^3</math></span></p> <p>C. <span style="font-size: 14.44444465637207px;"><math>sp</math></span></p> <p>D. <span style="font-size: 14.44444465637207px;"><math>sp^3</math></span> &amp;nbsp; d - hybridised</p>
17	The rotation of two carbon atoms joined by double bond would happen only if	<p>A. Pi bond is broken</p> <p>B. Sigma bond is broken</p> <p>C. Both bonds are broken</p> <p>D. None of above</p>
18	The unit of rate constant for a zero order reaction is	<p>A. Liter <math>sec^{-1}</math></p> <p>B. Liter &amp;nbsp; <span style="font-size: 14.44444465637207px;">mol</span></p> <p>C. Mol liter <math>sec^{-1}</math> &amp;nbsp; <span style="font-size: 14.44444465637207px;">sec</span></p> <p>D. Mol &amp;nbsp; <span style="font-size: 14.44444465637207px;">sec</span></p>
19	Maximum number of active hydrogens are present in	<p>A. Acetic-acid</p> <p>B. Glycerol</p> <p>C. Methane</p> <p>D. Methanol</p>
20	The movement of solvent molecules through a semipermeable membrane is called	<p>A. Electrolysis</p> <p>B. Electrophoresis</p> <p>C. Osmosis</p> <p>D. Cataphoresis</p>