# NAT I Medical

| Sr | Questions | Answers Choice |
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| 1 | Which of the following mineral does not contain Al? | A. 10<br>B. 50<br>C. 30<br>D. 96.5 |
| 2 | The velocity of a particle at an instant is 10 m/s and after 5 s the velocity of the particle is 20 m/s.The velocity 3s before in m/s is: | A. 8<br>B. 4<br>C. 6<br>D. 7 |
| 3 | In the manufacture of iron from haematite,limestone is added to act as. | A. N<sub>2</sub><br>B. CO<sub>2</sub><br>C. N<sub>2</sub>O<br>D. N<sub>2</sub> as well as CO<sub>2</sub> |
| 4 | Two point charge +3μC and +8μC repel each other with a force of 40 N. if a charge of -5μC is added to each of them then the force between will become | A. -10N<br>B. +10N<br>C. +20N<br>D. -20N<br>E. 720 |
| 5 | At a certain instant a stationary transverse wave is found to have maximum kinetic energy the appearance of string of that instant is: | A. Sinusoidal shape with amplitude A/3<br>B. Sinusoidal shape with amplitude A/2<br>C. Sinusoidal shape with amplitude A<br>D. Straight line |
| 6 | The effect of increasing the pressure on the following equilibrium 2A + 3B \| \| 3A + 2B is | A. Forward reaction is favoured<br>B. Backward reaction is favoured<br>C. No effect<br>D. None of the above |
| 7 | Wt. of 112 ml of oxygen at NTP on liquefaction would be | A. 0.32 g<br>B. 0.64 g<br>C. 0.16 g<br>D. 0.96 g |
| 8 | On heating acetaldehyde with ammonical silver nitrate solution we get | A. Reduction of Cu<sup>2+</sup><br>B. Oxidation of Cu<sup>2+</sup><br>C. Reduction of Fe<br>D. Reduction of Fe<sup>3+</sup> |
| 9 | For production of beats the two sources must have | A. Different frequencies and same amplitude<br>B. Different frequencies<br>C. Different frequencies same amplitude and same phase<br>D. Different frequencies and same phase. |
| 10 | A particle moving in a magnetic field has increase in its velocity then its radius of the circle | A. Decreases<br>B. Increases<br>C. Remains the same<br>D. Becomes half |
| 11 | Which of the following represents elements in order of increasing atomic size? | A. I,Br,Cl<br>B. Na,Mg,C<br>C. C,N,O<br>D. Li,Na,K |
| 12 | Isopropyl alcohol on oxidation forms | A. XeF<sub>2</sub><br>B. XeF<sub>3</sub><br>C. XeF<sub>4</sub><br>D. XeF<sub>6</sub> |
| 13 | The rate of a reaction can be increased in general by all the factors except by | A. Using a catalyst<br>B. Increasing temperature<br>C. Increasing the activation energy<br>D. Increasing the conc. of reactants |
| 14 | When the displacement is half of the amplitude the ratio of potential energy to the total energy is | A. 1/2<br>B. 1/4<br>C. 1 |

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| | | D. 1/8 |
| 15 | A body moves a distance of 10 m along a straight line under the action of a force of 5 Newtons, if the work done is 25 joules the angle which the force takes with the direction of motion of the body is: | A. 0°<br>B. 30°<br>C. 60°<br>D. 90° |
| 16 | In cold countries ethylene glycol is added to water in radiators of cars during winter It result in | A. Lowering in b.pt.<br>B. Reducing viscosity<br>C. Reducing specific heat<br>D. Lowering in freezing pt. |
| 17 | A body moving in circular motion with constant speed has | A. Constant velocity<br>B. Constant acceleration<br>C. Constant kinetic energy<br>D. Constant displacement |
| 18 | Radio waves of constant amplitude can be generated with | A. Resistance of copper increases while that of germanium decreases<br>B. Resistance of copper decreases while that of germanium increases<br>C. Resistance of both decreases<br>D. Resistance of both increases |
| 19 | The temperature at which the speed of sound becomes double as was at 27°C is | A. 273°C<br>B. 0°C<br>C. 927°C<br>D. 1027°C |
| 20 | Which of the following units represents largest amount of energy? | A. Calorie<br>B. Joule<br>C. Erg<br>D. Electron vol. |