

NAT I Medical Physics

| Sr | Questions | Answers Choice |
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| 1 | Two forces are acting together on an object. The magnitude of their resultant is minimum when the angle between the force is. | A. 0° B. 60° C. 120° D. 180° |
| 2 | A force of 10N is acting along y-axis its component along x-axis is | A. 10N B. 20N C. 100N D. Zero N |
| 3 | The angle between rectangular components of a vector is | A. 0° B. 60° C. 90° D. 120° |
| 4 | Which of the following lists of physical quantities consists only of vectors: | A. Time,temperature,velocity B. Force,volume,momentum C. Velocity,acceleration,mass D. Force,acceleration,velocity |
| 5 | Which of the following is the only vector quantity | A. Temperature B. Energy C. Power D. Momentum |
| 6 | Which of the following is a scalar quantity | A. Density B. Displacement C. Torque D. Weight |
| 7 | Which of the following is equal to: joule x ohm / volt x second ? | A. Ampere B. Volt C. Watt D. Tesla |
| 8 | The velocity v of a particle at time t is given by: $v = at + b / t + c$ The dimensional formula of a,b and c care respectively: | A. $L^{2/2}$; T and $LT^{2/2}$ B. $LT^{2/2}$; LT and L C. $LT^{2/2}$; L and $T^{2/2}$ D. L;LT and $T^{2/2}$ |