

Physics ICS Part 1 Chapter 1 Online Test

| Sr | Questions | Answers Choice |
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| 1 | The prefix 'nano' represents a factor of: | A. 10^{-6} B. 10^{-9} C. 10^{-12} D. 10^{-3} |
| 2 | The dimensions of angular momentum are. | A. $[ML^2T^{-1}]$ B. $[MLT^{-2}]$ C. $[MLT^1]$ D. $[ML^2T^{-2}]$ |
| 3 | When adding or subtracting physical quantities, the absolute uncertainty in the final result is found by: | A. Multiplying the individual absolute uncertainties. B. Adding the individual absolute uncertainties. C. Taking the average of the individual absolute uncertainties. D. Subtracting the smallest from the largest individual absolute uncertainty. |
| 4 | How many significant figures are in the measurement 0.004500 kg? | A. 3 B. 4 C. 5 D. 6 |
| 5 | The number of significant figures in the measured mass 2500.0 kg is | A. Two B. Three C. Four D. Five |
| 6 | Dimensions of viscosity are. | A. $[ML^{-1}T]$ B. $[ML^{-1}T^{-1}]$ C. $[ML^{-1}T^{-2}]$ D. $[ML^2T^{-1}]$ |
| 7 | Uncertainty may occur due to | A. Limitation of an instrument B. Personal negligence C. Natural variance of the object D. All of the above |
| 8 | The dimensions of weight are. | A. $[MLT^{-2}]$ B. $[LT^{-1}]$ C. $[LT^{-2}]$ D. $[ML^2T]$ |
| 9 | SI Unit of electric current. | A. Mole B. Candela C. Ampere D. Microampere |
| 10 | The dimensions of momentum are: | A. $[MLT^{-1}]$ B. $[ML^2T^{-2}]$ C. $[MLT^{-2}]$ D. $[ML^2T^{-1}]$ |
| 11 | The sum $12 \text{ kg} + 2.02 \text{ kg} + 5.1 \text{ kg}$ according to appropriate precision is | A. 19 kg B. 19.0 kg C. 19.1 kg D. 19.12 kg |
| 12 | Physical quantities are often divided into. | A. two categories B. Three categories C. Four Categories D. Five categories |
| 13 | The diameter of a steel ball is measured using a Vernier callipers and its reading is shown in the figure. what is the diameter of the steel ball. | A. 1.30 cm B. 1.39 cm C. 1.40 cm D. 1.31 cm |
| 14 | $[M^0 L^0 T^{-1}]$ Refers to. | A. Angular velocity B. Wavelength C. Time Period D. Velocity |

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| 15 | The length of steel pipe is in between 0.7 m to 0.8 m. Identify from the following. the appropriate instruemnt to be used for an accuracy of 0.001 m. | <p>A. <p>A micrometer screw gauge</p></p> <p>B. <p>A metre rule</p></p> <p>C. <p>A ten meteres measuring tape</p></p> <p>D. <p>A vernier callipers</p></p> |
| 16 | One centi is equal | <p>A. <p>10⁻³</p></p> <p>B. <p>10⁻²</p></p> <p>C. <p>10²</p></p> <p>D. <p>10⁻⁶</p></p> |
| 17 | The Diment sions of moment of inertia are | <p>A. <p>[ML²]</p></p> <p>B. <p>[ML⁻²]</p></p> <p>C. <p>[ML³]</p></p> <p>D. <p>[ML]</p></p> |
| 18 | One ligh year is equal to in meteres. | <p>A. <p>9.5 x 10¹⁵</p></p> <p>B. <p>9.5 x 10⁻¹⁵</p></p> <p>C. <p>3.1 x 10²</p></p> <p>D. <p>3.1 x 10⁻⁸</p></p> |
| 19 | SI unit is built up by how many kinds of units | <p>A. <p>5</p></p> <p>B. <p>7</p></p> <p>C. <p>3</p></p> <p>D. <p>4</p></p> |
| 20 | The answer of the product (2.8723 x 1.6) to the appropriate numebr of significant figures is. | <p>A. <p>4.6</p></p> <p>B. <p>4,595</p></p> <p>C. <p>4,59568</p></p> <p>D. <p>4.59</p></p> |