MDCAT Physics Chapter 1 Measurement Online Test

Sr	Questions	Answers Choice
1	Unit of solid angle is called:	A. Radian B. Degree C. Steradian D. Angstrom
2	Conversion of 10^4 micro-centimeter in meters is	A. 10⁻¹² B. 10⁻¹⁴ C. 10⁻¹⁰ D. 10⁻²
3	Which one is the least multiple:	A. Pico B. Femto C. Nano D. Atto
4	Addition of 2.2 kg. 10.2 grams and 10.01 grams gives the rounded of answer as:	A. 2.22003 kg B. 2.22 kg C. 2.2 kg D. 2 kg
5	Colomb is defined as:	A. Amp-Sec⁻¹ B. Amp-Sec C. Amp-m
6	Which quantity has different dimension?	A. Tension B. Force C. Weight D. Modulus of elasticity
7	Density is defined as:	A. Mass per volume B. Volume per mass C. Mass x volume D. Mass per length
8	The information from far side of the universe are gathered by:	A. Radio telescope B. Microscope C. Telescope D. AtSpectro scpe
9	SI Unit of absolute temperature is:	A. Celsius B. Kelven C. Centigrade D. Both A and C
10	To find the uncertainty in the time period of a vibrating body, the least count of the timing device is _____ number of vibrations.	A. Added into B. Subtracted from C. Multiplied by D. Divided by
11	Planck constant has SI unit of J-Second. Its dimension will be:	A. [ML²T⁻²] B. [ML²T⁻¹] C. [M²LT⁻¹] D. [ML⁻²T⁻²]
12	The average time the Earth takes to make exactly one rotation about its axis is defined as:	A. A solar hour B. A solar day C. A light year D. A solar month
13	The amount of a substance is measured in:	A. Kilogram B. Litre C. Mole D. Both A and C
14	The length of a line was measured with a metre scale of least count =1 mm by for students. The correct reading will be:	A. 0.5426 m B. 0.542 m C. 0.54 m D. 0.5 m
15	The amount of substance is measured in:	A. Kilogram B. Litre C. Mole D. Both A and C

16	significant figures in $2.00 \times 10^{-9}$are:	A. Four B. Three C. Two D. One
17	One kilogram is actually mass of platinum iridium alloy cylinder kept at international bureau of weights and measures in france. the ratio of platinum and iridium:	A. 90% :10% B. 10% : 90% C. 50% : 50% D. 60% : 40%
18	The branch of physics which is mainly concerned with the motion of bodies under the action of forces is called:	A. Optics B. Mechanics C. Thermodynamics D. Astro physics
19	Time taken by light from Sun to reach Earth is	A. 500 seconds B. 800 seconds C. 400 seconds D. 700 seconds
20	Addition of 2.2 kg. 10.2 grams and 10.01 grams gives the rounded off answer as:	A. 19.398 B. 19.400 C. 19.4 D. 19.3
21	The SI unit of volume is:	A. Litre B. cm³ C. m³ D. Both a and c
22	Significant figures in 0.0010are:	A. Four B. Three C. Two D. One
23	The quantity having dimension of $ML^{2}T^{-2}$will have SI unit of:	A. Watt B. Newton C. Joule D. Metre
24	Significant figures in 5432 are:	A. Two B. Three C. Four D. Five
25	Significant figures in 1.0×10^{-3} are:	A. Two B. Three C. Four D. Five
26	Spring constant has dimension	A. [MT⁻¹] B. [MT⁻²] C. [MT⁻³] D. [M⁻²T^o]
27	Number can be expressed in scientific notation which employ power of:	A. One B. Ten C. 100 D. 1000
28	Pascal is a unit of:	A. Power B. Pressure C. Magnetic field D. Intensity of sound
29	Significant figures in 0.0010 are:	A. Four B. Three C. Two D. One
30	From sand, we get a material used for construction of computer chips. That material is:	A. Germanium B. Silicon C. Copper D. Lead
31	Which of the following is not a base unit:	A. Square meter B. Cubic meter C. Candela D. All of these
32	For addition and subtraction purposes, absolute uncertainties are:	A. Added B. Subtracted C. Multiplied D. Divided
33	Significant figures in 1.0011000 are:	A. Eight B. Seven C. Six

		C. Six D. Five
34	The dimensions MLT^{-2} refer to the physical quantity.	A. Torque B. Force C. Mass D. Acceleration
35	Moment of inertia is a _____ quantity having unit of _____	A. Scalar kg -m² B. vector kg-m² C. scalar kg m²/sec D. none of these
36	For multiplication and division purposes, percentage uncertainties are:	A. Added B. Subracted C. Multiplied D. Divided
37	Typical examples of base quantities are:	A. Length B. Mass C. Time D. Only A anc C E. all of these
38	Which one of the following is not a base unit:	A. Ampere B. Kelvin C. Watt D. candela
39	The length and width of a rectangular plate are measured to be 15.3 cm and 12.80 cm, respectively. The area of plate is:	A. 195.84 B. 195.8 C. 195 D. any of these
40	Significant figures in 1.0×10^{-3} are	A. Five B. Four C. Two D. Three
41	Significant figures in 2.00×10^{-9} is:	A. Four B. Three C. Two D. One
42	Supplementary unit/s in SI units is/are:	A. Radian B. Steradian C. Degree D. Only a and b E. all of these
43	In the equation $vf^2-vi^2=2as$, the dimension of 2as is:	A. [LT⁻²] B. [LT⁻¹] C. [L] D. [L²T⁻²]
44	The number of base units in SI are:	A. Four B. Five C. Six D. Seven
45	Which one of the following is not a base unit.	A. Ampere B. Kelven C. Watt D. Candela
46	Which of the following is/are base unit/s:	A. Square meter B. Cubic meter C. Candela D. all of them
47	Significant figures in 0.2020 are:	A. Two B. Three C. Four D. Five
48	The unit which is bases on one or more base units is called:	A. SI unit B. Derived unit C. Unit vector D. Base unit
49	Conversion of 10^{-6}micro-centimeter in meters is:	A. 10⁻¹² B. 10⁻¹⁴ C. 10⁻² D. 10⁻¹⁰
50	The average time the Earth takes to make exactly one rotation abut its axis is defined as:	A. A solar hour B. A solar day C. A light year D. A solar month

51	Which quantity had different dimensions:	A. Work B. Pressure C. Energy D. Torque
52	0.0001210 has _____ significant figures.	A. Four B. Three C. Seven D. Eight
53	One metre has _____ nanometer and one nanometer has ___ meter.	A. 10⁵ ,10⁵ B. 10⁹ ,10⁻⁹ C. 10⁻⁹,10⁹ D. 10⁵,10⁻⁵
54	Light year is unit of	A. Time B. Distance C. Velocity D. Intensity of light
55	The time interval of 6.3 x 10^7second is equal to:	A. 4 days B. 3 months C. 2 years D. One light year
56	The definite number of significant figures in 5000 is:	A. Four B. Three C. Two D. One
57	Which quantity has different dimension.	A. work B. Pressure C. Energy D. Torque
58	The ratio of platinum and iridium is:	A. 90% :10% B. 10% : 90% C. 50% : 50% D. 60% :40%
59	Physics deal with the study of	A. Matter B. Energy C. Both of them D. Human body
60	Steradian is the angle subtended at the contre of the_____	A. Circle B. Sphere C. any of these D. square
61	The length and width of a rectangular plate are measured to be 15.3 cm, and 12.80 cm, respectively the area of plate is:	A. 195.84 B. 195.8 C. 195 D. any of these
62	Significant figures in 0.2020 are	A. Two B. Three C. Four D. Five
63	All of the following have been expressed in proper units except:	A. Energy = kg m sec⁻² B. Pressure = N -m² C. Area = m² D. density = kg - m³
64	Unit of spring constant is:	A. Newton per meter B. Kg-Sec⁻² C. J-m⁻² D. All of these E. None of these
65	The maximum possible error in the reading of an instrument is _____ its least count.	A. Half of B. Quarter of C. Equal to D. Double than
66	The unit which is based on one or more base units is called	A. SI Unit B. Derived unit C. Unit vector D. Base unit
67	Aerodynamics is a branch of:	A. Hydrodynamics B. Thermodynamics C. Both of them D. Statics
		A. Absolute

68	Uncertainty is of following type/types:	B. Fractional C. Percentage D. All of these
69	The prefix micro represents the _____ th part of a quantity:	A. 10¹² B. 10⁶ C. 10⁻⁶ D. 10⁻²
70	In mean solar day, the number of seconds are	A. 24 seconds B. 1440 seconds C. 86400 seconds D. 3600 seconds
71	The dimension of modulus of elasticity is:	A. Different from that of coefficient of viscosity B. The same as that of pressure C. the same as that of coefficient of viscosity D. Both A and B E. Both A and C
72	Example of physical quantities are:	A. Length B. Colour C. Effect of music D. All of these
73	Absolute uncertainty in a measuring instrument is equal to:	A. Percentage uncertainty B. Least count C. Accuracy D. Fractional uncertainly
74	Significant figures in 5432 are	A. Two B. Three C. Four D. Five
75	Addition of 2.189 kg, 0.089 kg, 11.8 kg and 5.32 kg give the rounded off answer as:	A. 19.398 B. 19.400 C. 19.4 D. 19.3
76	The dimension $[M^0L^0T^{-1}]$ refer to physical quantity:	A. Velocity B. Time period C. Frequency D. Force
77	Dimensions are same for:	A. Wavelength and amplitude B. Inertia and moment of inertia C. Frequency and angular velocity D. Both A and B E. Both A and C
78	In man solar day, the number of seconds are:	A. 24 seconds B. 1440 seconds C. 86400 seconds D. 3600 seconds
79	Mole is a unit of measuring:	A. amount substance B. Intensity of light C. Amount of current D. Mass
80	0.0001210 has _____ significant figures.	A. Four B. three C. Seven D. Eight