

## MDCAT Physics MCQ's Test

Sr	Questions	Answers Choice
1	De-Broglie received the Nobel prize on his work on:	A. Wave nature of particle B. Corpuscular nature of wave C. Dual nature of particle D. All of them
2	The dimensions $MLT^{-2}$ refer to the physical quantity.	A. Torque B. Force C. Mass D. Acceleration
3	There is a regular arrangement of molecules in	A. amorphous solids B. polymeric solids C. crystalline solids D. none of these
4	Shear modulus for glass is	A. 23 B. 39 C. 52 D. 69
5	Which of the following quantities /quantity becomes zero at any moment during oscillation.	A. Speed B. Acceleration C. Momentum D. All of these
6	If the tensile force is suddenly removed from a wire then its temperature will	A. Decrease B. Increase C. Become zero D. Remain constant
7	The mother and daughter elements with the emission of $\alpha$ - $\beta$ rays, are called:	A. Isotopes B. Isobars C. Isomers D. Isodiapheres
8	electrons from the surface of a metal when:	A. It is heated to a high temperature B. Radiation of suitable wavelength falls on it C. Electrons of suitable velocity strike it D. It is placed in a strong electric field
9	When small number of atoms from some other suitable element is added to the semi-conductor material, then this process is known as	A. impurification B. adding C. doping D. extrinsivity
10	With tremendous information carrying capacity is called	A. Data entry B. Band width C. Word processing D. None of these
11	The number of different crystals systems based on the geometrical arrangement of their atoms and the resultant geometrical structures are	A. 5 B. 7 C. 9 D. 14
12	Angular displacement in rotational motion is expressed in	A. $\text{m}^2/\text{s}^2$ B. $\text{m}^2/\text{s}^2$ C. $\text{Nm}^{-1}$ D. $\text{Nm s}$
13	Proportion of light in an optical fibre requires that the light-should be within the fibre	A. Very little confined B. Largely confined C. Totally confined D. None of these
14	An optical fiber of _____ cm in diameter id equivalent to 7.62 cm diameter bundle of _____ wires to carry the same amount of signals	A. 0.6, aluminum B. 6.0, copper C. 0.6, copper D. 6.0, aluminum
15	If the focal of a convex lens is 5 cm then to get real and inverted image of the same size as that of object, the object should be placed at	A. 5 cm B. 10 cm C. 15 cm D. -

		D. 20 cm
16	A stone of mass 0.5kg tied with a string of length 1m is moving in a horizontal circle with a speed of 4ms <sup>-1</sup> . The tension acting on the string in newton is:	A. 2 B. 0.2 C. 8 D. 0.8
17	The SI unit of stress is same as that of	A. Momentum B. Pressure C. Force D. Length
18	In a full wave rectifier:	A. DC current is twice that of half wave rectifier B. DC pulses are twice per cycle that of half wave rectifier C. DC voltage is twice that of half wave rectifier D. All are correct
19	Ductility is the property of a substance in which a material undergoes the deformation as	A. Elastic deformation B. Plastic deformation C. Shear deformation D. None of these
20	The simplest type of rectification known as half wave rectification is obtained by	A. Using a transistor B. Suppressing the harmonics in A.C. voltage C. Suppressing half wave of A.C. supply by using diode D. Using a Coolidge