

## MDCAT Physics MCQ's Test

Sr	Questions	Answers Choice
1	An oscillating body oscillates due to:	A. Applied force B. Restoring force C. Frictional force D. None of these
2	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
3	Huygen's principle is used to study the	A. formation of wavefronts B. propagation of wavefronts C. nature of light D. speed of light
4	The critical temperature for mercury is	A. 1.18 K B. 4.2 K C. 3.72 K D. 7.2 K
5	Polymers have chemically combinations with	A. Carbon B. Nitrogen C. Hydrogen D. All of them
6	if ratio of time periods of two pendulum is 1:2 then the ratio of their length will be:	A. 4 : 1 B. 1 : 2 C. 1 : 4 D. None of these
7	Which one of the following is not a base unit:	A. Ampere B. Kelvin C. Watt D. candela
8	A count rate 240 per minute reduces to 30 counts per min in 1 hour. The half-life of source is:	A. 20min B. 60min C. 80min D. 90min
9	A body of mass 0.031 kg attached to one end of a spring of spring constant 0.3 N/m , then time period of spring mass system will be:	A. 1.5 sec B. 2.0 sec C. 2.3 sec D. 2.5 sec
10	The spectrum of a star's light is measured and the wavelength of one of the lines as the sodium's line is found to be 589 nm. The same line has the wavelength of 497 nm when observed in the laboratory. This means the star is	A. Moving away from the earth B. Moving towards the earth C. Stationary D. Revolving around the planet
11	Which of the following can become a good permanent magnet?	A. iron B. steel C. both of them D. none of them
12	The SI unit of stress is same as that of.	A. Momentum B. Pressure C. Force D. Length
13	The ratio of platinum and iridium is:	A. 90% : 10% B. 10% : 90% C. 50% : 50% D. 60% : 40%
14	The locus of all the points in the same phase of vibration is called:	A. Wave packet B. Wavefront C. Wave number D. None of these
15	Maximum detail of object can be seen from a microscope when light used is of	A. Shorter wavelength B. Longer wavelength C. White light D. Any light

16	The ratio of the diameter of two convex lenses is the ratio of their focal lengths	A. Greater than B. Less than C. Equal to D. None
17	An electron and a proton are accelerated through the same potential. If their masses are $m_e$ and $m_p$ respectively, then the ratio of their de-Broglie wavelength is:	A. 1 B. $m_p/m_e$ C. $m_e/m_p$
18	The conductivities of conductors (metals) have	A. $10^{5-1} \text{ } (\Omega)^{-1}$ B. $10^{7-1} \text{ } (\Omega m)^{-1}$ C. $10^{8-1} \text{ } (\Omega m)^{-1}$ D. $10^{9-1} \text{ } (\Omega m)^{-1}$
19	The ideal gas obey gas law at:	A. Low tempratures and high pressures B. High temperatures and low pressures C. All temperatures and pressures D. None of these
20	For a particle moving in uniform circular motion	A. Velocity is transverse and acceleration is radical B. Velocity is radial and acceleration is transverse C. Both velocity and acceleration are radial D. Both velocity and acceleration are transverse