

## MDCAT Physics MCQ's Test

Sr	Questions	Answers Choice
1	Shear modulus for tungsten is	A. 50 B. 100 C. 150 D. 200
2	For the same value of resistors the output of non-inverting amplifier compared to the output of inverting amplifier is, (ignoring phase difference)	A. Greater B. Equal C. Smaller D. Undefined
3	In Young's double slit experiment, the separation between the slits is made 3 fold the fringe width becomes	A. 1/3 times B. 1/9 times C. 3 times D. 9 times
4	What will be efficiency of carnot engine when it is operated between the temperatures 47°C and 127 °C:	A. Reversible B. Irreversible C. Sometimes A and B D. None of these
5	When the object is closer to eye or near point, the image becomes	A. Sharp B. Clear visible C. Blurred D. None of these
6	A solid subjected to deformation along one dimension	A. Only have tensile stress B. Only have compressive stress C. Have both tensile and compressive stress D. None of them
7	The magnetic field produced due to the current in a straight wire is proportional to the :	A. Electric current B. Conducting material C. Length of the wire D. Diameter of the wire
8	If a source of light is moving away from stationary observer then frequency of light wave appears to change because of	A. Doppler's effect B. Interference C. Diffraction D. None of the above
9	The emf of a cell of negligible internal resistance is 2V. It is connected to the series combination of $\square\square$ , $\square\square$ $\square\square\square$ $\square\square$ resistance. The potential difference across $\square\square$ resistance will be in volt:	A. 0.6 B. 2/3 C. 3 D. 6
10	The energy of photon of wavelength 620 nm is:	A. 0.5 eV B. 1.0 eV C. 1.5 eV D. 2.0 eV
11	Which of the following spectrum have all the frequencies from high to low frequency range?	A. Band spectrum B. Continuous spectrum C. Line spectrum D. Discontinuous spectrum
12	The light source in the transmitter can be either	A. Light emitting diode B. Semiconductor laser C. Light emitting in an invisible infra red D. All of these
13	Which of the following pairs is not correct	A. Strain - dimensional B. Stress - $\text{N/m}^2$ C. Modulus of elasticity - $\text{N/m}^2$ D. Shear stress - $\text{N/m}^2$
14	The main reason for the high speed of bullet train is	A. Magnetic effect B. Reduced friction C. Design of train D. None of these

15	Every crystalline solid has a melting point	B. Not definite C. Any D. Change every time
16	The image formed after objective lens of an astronomical telescope is	A. Inverted B. Diminished C. Real D. All of these
17	The potential difference applied to an X-rays tube is increased. As a result, in the emitted radiation	A. The intensity increases B. The minimum wavelength decrease C. The intensity remains unchanged D. Both B & C
18	A monkey is accelerating down a string whose breaking strength is two third of his weight. The minimum acceleration of the monkey should be	A. $\frac{1}{3}g$ B. $g$ C. $\frac{2}{3}g$ D. $0 \text{ m/s}^2$
19	The value of young's modulus is maximum for:	A. Diamond B. Copper C. Ice D. Mercury E. Water
20	Which quantity has different dimension?	A. Tension B. Force C. Weight D. Modulus of elasticity