

## MDCAT Physics MCQ's Test

Sr	Questions	Answers Choice
1	For which color of light the refractive index of glass is larger	A. Red B. Green C. Blue D. Violet
2	Characteristics of optic fibre is/are	A. Much thinner B. Light weight C. Extremely wide bandwidth D. All of these
3	The ultra-purity of optical fibre is	A. 90 % B. 99 % C. 99.9 % D. 99.99 %
4	The resistance of operational amplifier between inverting and non-inverting terminal is of the order of:	A. Few Ohms B. Mega Ohms C. Few Kilo Ohms D. Micro Ohms
5	In single slit diffraction the condition for second minimum is	A. $\sin\theta = \lambda$ B. $d \sin\theta = 2\lambda$ C. $d \sin\theta = 3\lambda$ D. $d \cos\theta = 0$
6	At the point of contact of the lens and the glass plate, the Newton's ring is	A. dark B. bright C. either of them D. neither of them
7	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
8	Polymers are the chemical combination of carbon with:	A. Nitrogen B. Oxygen C. Hydrogen D. All of these E. None of these
9	de-Broglie wavelength associated with an electron moving at a speed of $1 \times 10^6 \text{ ms}^{-1}$ is	A. $4 \times 10^{-10} \text{ m}$ B. $5 \times 10^{-10} \text{ m}$ C. $6 \times 10^{-10} \text{ m}$ D. $7 \times 10^{-10} \text{ m}$
10	Absolute zero is considered as that temperature at which:	A. All liquids become gases B. All gases become liquids C. Water freezes D. None of these
11	Energy per unit volume of a stretched wire is	A. $(1/2) \times \text{load} \times \text{extension}$ B. Load $\times$ stress C. Stress $\times$ strain D. $(1/2) \times \text{stress} \times \text{strain}$
12	Davisson and Germer, in their experiment used:	A. Nickel crystal B. Lead crystal C. Graphite crystal D. Glass
13	Carnot engine is _____ heat engine.	A. A reversible B. An irreversible C. An ideal D. Both A and C
14	Glass and high carbon steel are	A. Brittle substances B. Insulator C. Ductile substances D. None of these
15	In multi-mode step index optical fibre, that layer is called cladding which has	A. higher refractive index B. lower refractive index C. both of them D. none of them

		D. none of them
16	In Micheal sons interfrometes apparatus the numbers of mirrors and glas plates are used respectively ara	A. 2,2 B. 2,3 C. 3,2 D. 3,3
17	Huygen's principle states that:	A. Light travels in straight line B. Light has dual nature C. Either of these D. None of these
18	Bulk modulus for glass is	A. 2 B. 31 C. 36 D. 42
19	Bulk modulus for diamond is	A. 250 B. 540 C. 695 D. 714
20	Real gases strictly obey gas laws at:	A. High pressures and low temperatures B. Low pressures and high temperatures C. High pressures and & temperatures D. None of these