

## MDCAT Physics MCQ's Test

Sr	Questions	Answers Choice
1	The critical temperature of tin is	A. 1.18 K B. 4.2 K C. 3.72 K D. 7.2 K
2	To observe the phenomenon of interference of light, the light should be	A. Monochromatic B. Phase coherence C. Coherent sources D. All of these
3	The interference fringes are of	A. equal width B. variable width C. zero width D. non-uniform width
4	X-ray crystallography can be used to get what information about the structure of a compound?	A. the bond angles in a molecules B. the number of molecules per unit cell C. a picture of the electron density in a unit D. all of them
5	Longitudinal strain can be produced in	A. Glass B. Water C. Honey D. Hydrogen gas
6	Super conductors are materials like	A. Alloys B. Ceramic C. Semiconductors D. a and b
7	A women of 50 kg distributes her wright equally over high-heeld shoes. Each heel has an area of $0.75 \text{ cm}^2$ . The pressure exerted by each heel will be	A. $6.66 \times 10^6 \text{ Pa}$ B. $3.33 \times 10^6 \text{ Pa}$ C. $1.67 \times 10^6 \text{ Pa}$ D. $3.33 \times 10^{-6} \text{ Pa}$
8	Two bodies are projected at angle $\theta$ and $(90^\circ - \theta)$ to the horizontal with the same speed. The ratio of their times of flight is:	A. $\sin \theta : 1$ B. $\cos \theta : 1$ C. $\sin \theta : \cos \theta$ D. $\cos \theta : \sin \theta$
9	The speed of secondary wavelets as mentioned in Huygen's principle is _____ the speed of propagation of the wave itself:	A. Equal to B. Greater than C. Smaller than D. None of these
10	In a semi-conductor material, the total current is	A. only the +ve current B. only the electronic current C. sum of +ve and electronic current D. all of them
11	Sky seems blue due to	A. Diffraction B. Polarization C. Dispersion D. Scattering
12	The motion of a charged nucleus also produces a magnetic field which is	A. Weaker than orbital electrons B. Stronger than orbital electrons C. Equal than orbital electrons D. None of these
13	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
14	Who attempted to measure the speed of light	A. Gallileo B. Michelson C. Newton D. ...

		U. None of these
15	A man $M_1$ of mass 80 kg runs up a staircase in 15s. Another man $M_2$ also of mass 80 kg runs up the same staircase in 20s. The ratio of the power developed by them will be	A. 1 B. $\frac{4}{3}$ C. $\frac{16}{9}$ D. none of these
16	A charged conductor has charged on its:	A. Outer surface B. Surrounding surface C. Inner surface D. Middle point
17	A pulsating DC can be converted into constant voltage by using	A. Filter B. Full wave rectifier C. Half wave rectifie D. Bridge rectifier
18	A thin film is a transparent medium whose thickness is comparable with the wavelength of	A. light B. sound C. any one of them D. none of them
19	Lead, copper and wrought iron are examples of	A. brittle substances B. ductile substances C. plastic substances D. elastic substances
20	When a movable mirror moves $\lambda/4$ distance and the light used is 400 nm, then the distance measured highly precise is	A. 100 nm B. $10^{-4}$ nm C. $10^{-6}$ nm D. $10^{-5}$ mm