

MDCAT Physics MCQ's Test

Sr	Questions	Answers Choice
1	A body is in translational equilibrium if	A. $\Sigma P = 0$ B. $\Sigma L = 0$ C. $\Sigma F = 0$ D. $\Sigma \tau = 0$
2	The resolving power of telescope depends on	A. Focal length of eye lens B. Focal length of objective lens C. Length of the telescope D. Diameter of the objective lens
3	The light signal in graded index fibre is totally confined due to	A. Total internal reflection B. Continuous refraction C. Both a and b D. Dispersion
4	Confining the light vibrations in one plane is called:	A. Reflection of light B. Interference of light C. Polarization of light D. Diffraction of light
5	A source of a magnetic field is:	A. An isolated magnetic B. A static electric charge C. A moving electric charge D. None of these
6	When two objects come to common temperature, the body is said to be in:	A. Static equilibrium B. Dynamic equilibrium C. Thermal equilibrium D. None of these
7	Two bodies are projected at angle θ 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. $\cos \theta : \sin \theta$
8	Crystalline solids are in the form of:	A. Metals B. Ionic compounds C. Ceramics D. Both A and B E. All of these
9	The practical use of services by optic fiber is	A. Two way television B. World processing C. Image transmitting and receiving equipment D. All of these
10	In Insulators the conduction band is	A. Empty B. Partially filled C. Full D. None of these
11	For the normal setting of a telescope	A. Only the object is at infinity B. Only the final image is at infinity C. Both the object and the final image is at infinity D. Neither the object nor the final image has to be at infinity
12	For a normal AC cycle, during $T/2$ to T the diode act as:	A. Open switch B. full wave rectifier C. Close switch D. All are correct
13	Upon applying some unbalanced external stress the deformation may be observed in	A. Length B. Surface area C. Volume D. All of these
14	A proton and an α - particle are accelerated through same voltage, the ratio of their de- Broglie wavelength will be:	A. 1:2 B. $\sqrt{2}: 1$ C. $2\sqrt{2}: 1$ D. 2:1

15	Sun has elliptical shape when it rises and sets due to	A. Retraction B. Reflection C. Scattering D. Dispersion
16	Bulk modulus for mercury is	A. 27 B. 29 C. 29.4 D. 30
17	For interference to occur, the light coming from the two slits should	A. be monochromatic B. come from the same source C. have a constant path difference D. all of them
18	The frequency of light ray is 6×10^{14} Hz. The frequency when it propagates in a medium of refractive index 1.5 will be	A. 6×10^{14} Hz B. 4×10^{14} Hz C. 9×10^{14} Hz D. 1.67×10^{14} Hz
19	With the help of interferometer, we can find the	A. Wavelength B. Frequency C. Phase D. None of these
20	The arrangement of molecules or atoms in a crystalline solid can be studied by using:	A. Chemical methods B. Neutrons C. X-ray techniques D. Copper atoms E. Both A and B