

MDCAT Physics MCQ's Test

Sr	Questions	Answers Choice
1	The area of hysteresis loop is an indication of the	A. Permeability of the material B. Susceptibility of the material C. Retentivity of the material D. Energy dissipated per cycle
2	In photo electric cell, the photo electric current	A. Decreases with increase in frequency of light B. Depends on intensity and frequency of light C. Does not depend upon the frequency of light and but depends upon intensity of light D. Increases with increase in frequency of light
3	The image of the tip of a needle is never sharp because of	A. Polarization of light B. Interference of light C. Diffraction of light D. Reflection of light
4	The electrical resistance of mercury disappeared below temperature	A. 2.1 K B. 3.4 K C. 4.1 K D. 4.2 K
5	If one atom or molecule lies out each of the eight corners of a cube, it is called	A. Simple cube B. Face centered cube C. Body centered cube D. None of these
6	The momentum of the moving photon is:	A. Zero B. $h\nu$ C. $\frac{h\nu}{c}$ D. $h\nu/c$
7	For multiplication and division purposes, percentage uncertainties are:	A. Added B. Subtracted C. Multiplied D. Divided
8	Multimode step index fibre has diameter as	A. 40 μm B. 50 μm C. 60 μm D. None of these
9	What is the resultant force in the diagram shown?	A. Zero B. 6N to left C. 6N to right D. 11N to right
10	Which of the particles, electron, proton and neutron moving with same speed has longest wave length?	A. Electron B. Proton C. Neutron D. All have same
11	In case of reflection of ray within a denser medium, angle of incidence is _____ -angle of reflection	A. Greater than B. Smaller than C. Equal to D. None of these
12	Hard magnetic materials are	A. Iron B. Steel C. Alnico D. None of these
13	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
14	If temperature of the sink is decreased, efficiency of a carnot engine.	A. Remains constant B. Decreases C. Increases D. None of these

15	Which light travels faster in optical fibres?	A. visible light B. ultraviolet C. infra-red D. any one of them
16	The expression of energy stored in an inductor of length L and current I can be expressed by a relation	A. $\frac{1}{2} LI^2$ B. $\frac{1}{2} I^2 L$ C. $\frac{1}{2} I^2 L^2$ D. $\frac{1}{2} IL$
17	A stone is thrown up from the surface of earth when it reaches at maximum height. its total energy is equal to	A. mgh B. $\frac{1}{2} mv^2$ C. zero D. 2mgh
18	If P is the pressure and V is the volume, Then PV will represent:	A. Power B. Work C. Force D. None of these
19	Maximum speed of electrons in X-rays tube which is producing X-rays photons of frequency f is	
20	If red light is incident on sea water it appears	A. Red B. Green C. Blue D. Yellow