

MDCAT Physics MCQ's Test

Sr	Questions	Answers Choice
1	A certain noninverting amplifier has R1 of 1 kΩ and R2 of 100 kΩ. The closed-loop voltage gain is	A. 100,000 B. 100 C. 1000 D. 101
2	In order to perform experiment, Davisson and Germer used accelerating voltage of:	A. 54V B. 120V C. 220V D. 400V
3	What is the momentum of a photon of light of wavelength 500 nm in kgm/s:	A. 1.32×10^{-21} B. 1.32×10^{-23} C. 1.32×10^{-25} D. 1.32×10^{-27}
4	A unit set is the smallest basic structure which is:	A. One dimensional B. Two dimensional C. Three dimensional D. Four dimensional E. None of these
5	In YDS experiment, at the center of screen is formed a:	A. Dark fringe B. Bright fringe C. No fringe at all D. None of these
6	The ability of a body to return to its original shape when applied force is removed is called	A. Stress B. Strain C. Elasticity D. All of them
7	Which of the given elements is a diamagnetic material	A. Antimony B. Bismuth C. Copper D. All of these
8	The fundamental frequency of a closed organ pipe is 50 Hz. The frequency of second overtone is	A. 100hz B. 150hz C. 60hz D. 250hz
9	The smallest part of a crystal lattice is called:	A. A molecule B. An atom C. A unit cell D. A particle
10	How the fringe spacing varies as the separation of the slits increases	A. Increases B. Decreases C. Increases very little D. None of these
11	Glare produces when light reflects from water snow and rough road surfaces when their angle of incidence is	A. Small B. Large C. Very large D. None of these
12	The structure of the polymeric solid is:	A. An ordered structure B. A disordered structure C. Intermediate between order or disorder D. Any of these E. None of these
13	The temperature scale approved in SI units is:	A. Celsius scale B. Kelvin scale C. Fahrenheit scale D. None of these
14	For total internal reflection to take place, the angle of incidence must be _____ than critical angle and the light should travel from _____ to _____ medium	A. Greater, rarer, denser B. Smaller, rarer, denser C. Smaller, denser, rarer D. Greater, denser, rarer

15	The more readily fissionable isotope of uranium has an atomic mass of:	B. 230 C. 235 D. 240
16	With rise in temperature the electric conductivity of intrinsic semiconductor	A. Increases B. Decreases C. First increases and then decreases D. First decreases and then increases
17	When the length and area of cross-section both are doubled, then its resistance:	A. Will become half B. Will remain the same C. Will be doubled D. Will become four times
18	A tritium and alpha particle enter the magnetic field with same kinetic energy, what will be the ratio of their radii?	A. 3:4 B. $\sqrt{3}$: 1 C. $\sqrt{3}$: 4 D. $\sqrt{3}$: $\sqrt{2}$
19	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
20	Stress may be	A. Tensile B. Compressive C. Shear D. All of these