

MDCAT Physics MCQ's Test

Sr	Questions	Answers Choice
1	The unit of gain (G) for non-inverting amplifier is	A. Ampere B. ohm C. Volt D. None of these
2	For the same value of resistors the output of non-inverting amplifier compared to the output of inverting amplifier is, (ignoring phase difference)	A. Greater B. Equal C. Smaller D. Undefined
3	The refracting edge of the prism must be parallel to the axis of rotation of the telescope, so that the turn table is leveled using	A. Screws of the spectrometer B. Leveling screws C. Turn table screw D. None of these
4	Ductility is the property of a substance in which a material undergoes the deformation as	A. Elastic deformation B. Plastic deformation C. Shear deformation D. None of these
5	The curie temperature for iron is	A. 750°C B. 570°C C. 750°k D. 57°K
6	The velocity of light in vacuum can be changed by changing:	A. Frequency B. Amplitude C. Wavelength D. None of these
7	The valence energy band can never be	A. Filled B. Partially filled C. Empty D. None of these
8	Steel is preferred for making springs over copper. Why?	A. Steel is cheaper B. Young's modulus of steel is more than that of copper C. Young's modulus of copper is more than that of steel D. Steel is less likely to be oxidized.
9	A double convex lens acts as a diverging lens when the object is	A. Between f and 2f B. At the focus C. Inside the focus D. All of these
10	X-rays interact with	A. solid crystal B. atoms in the crystal C. nuclei of atoms in the crystal D. electrons of atoms in the crystal
11	When heat is added to the system, the entropy change is:	A. Positive B. Negative C. Zero D. None of these
12	Two monochromatic radiations X and Y are incident normally on a diffraction grating. The second order intensity maximum for X coincides with the third order intensity maximum for Y what is the ratio wavelength of X/wavelength of Y?	A. 1/2 B. 2/3 C. 3/2 D. 2/1
13	The modulus of rigidity of a liquid is:	A. Zero B. 1 C. Infinite D. None of these
14	One kilogram is actually mass of platinum iridium alloy cylinder kept at international bureau of weights and measures in france. the ratio of platinum and iridium:	A. 90% :10% B. 10% : 90% C. 50% : 50% D. 60% : 40%
15	When a stress changes the volume, it is called the	A. compressional stress B. tensile stress C. shear stress

		D. any one of them
16	The simplest type of rectification known as half wave rectification is obtained by	A. Using a transistor B. Suppressing the harmonics in A.C. voltage C. Suppressing half wave of A.C. supply by using diode D. Using a Coolidge
17	Certain light of wavelength 600 nm is used to view an object under the microscope. If the aperture of its objective is 1.22 cm, then the limiting angle of resolution will be	A. $6 \times 10^{-5} \text{ rad}$ B. $7 \times 10^{-5} \text{ rad}$ C. $8 \times 10^{-5} \text{ rad}$ D. None of these
18	A diffraction grating has 500 lines per mm. its slit spacing or grating element will	A. 500 mm B. $5 \times 10^{-3} \text{ mm}$ C. $2 \times 10^{-5} \text{ mm}$ D. $2 \times 10^{-3} \text{ mm}$
19	Bats navigate and find food by:	A. Ultrasonic B. Echolocation C. Refraction
20	If the velocity of a body becomes half, the kinetic energy of body will become	A. One fourth B. Double C. Four times D. Half