

MDCAT Physics Chapter 13 Deformation of Solids MCQ's Test

Sr	Questions	Answers Choice
1	Which of the following can become a good permanent magnet?	A. iron B. steel C. both of them D. none of them
2	How does the Young's modulus vary with the increase of temperature?	A. Decrease B. Increase C. Remains constant D. First increases and then decreases
3	Young's modulus for ice is	A. 3 B. 14 C. 20 D. 32
4	The band above the valence band is	A. Completely filled band B. Conduction band C. Forbidden energy band D. None of these
5	The strain is the ratio of	A. Stress/strain B. Strain/stress C. Force area D. change in length/original length
6	The critical temperature Tc for Aluminium is	A. 2.1 K B. 1.1 K C. 1.18 K D. 1.19 K
7	Within each domain, the magnetic fields of all the spinning electrons are	A. parallel B. antiparallel C. perpendicular D. all of them
8	Semiconductor materials have the conductivities generally lies between	A. 10 ⁻⁵ to 10 ⁻⁶ (Ωm) ⁻¹ B. 10 ⁻⁶ to 10 ⁻⁴ (Ωm) ⁻¹ C. 10 ⁻⁷ to 10 ⁻³ (Ωm) ⁻¹ D. None of these
9	$220~\text{cm}^3\text{of}$ water, when subjected to a stress of 100 atmosphere, becomes 219 $\text{cm}^3.$ Find the bulk modulus of water	A. 100 N m ⁻³ B. 100 N m ⁻² C. 22000 N m ⁻³ D. 22000 N m ⁻²
10	In superconductors, the resistance of a material drops to zero and no	A. Power is dissipated B. Energy is dissipated C. Current is dissipated D. None of these
11	Amorphous solids are more like	A. crystalline solids B. polymeric solids C. glassy solids D. any one of them
12	After curie temperature iron is	A. Ferromgnetic B. Diamagnetic C. Paramagnetic D. None
13	The saturation of the material reached when magnetic flux density changes from	A. Zero to minimum value B. Zero to maximum value C. Maximum to zero value D. Minimum to negative value
14	When a silicon crystal is doped with trivalent impurity which are	A. Indium B. Arsenic C. Phosphorous D. None of these

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15	If both the length and radius of rod are doubled, then the modulus of elasticity will:	A. Increase B. Decrease C. Remains the same D. Doubled
16	Conductors are those materials in which energy gap is	A. very large (several eV) B. very narrow (= 1eV) C. either of them D. none of them
17	The metals become electrically conducting due to their	A. Ductility B. Hardness C. Structure D. All of them
18	When a crystal is subjected to stress, it tends to break or fracture along definite direction which is characteristic of a simple. This is called	A. Cleavage B. Allotropy C. Isotropy D. None of these
19	Which of the following pair of quantities have the same units?	A. stress, Young's modulus B. Young's modulus, bulk modulus C. Stress, bulk modulus D. All of them
20	The units of modulus of elasticity are same as that of	A. Stress B. Strain C. Force D. None