

MDCAT Physics Chapter 13 Deformation of Solids MCQ's Test

Sr	Questions	Answers Choice
1	Which of the following has no dimension	A. Stress B. Strain C. Elastic modulus D. Both strain and elastic modulus
2	The fractional change in volume per unit increase in pressure is called	A. Pressure coefficient B. Volume coefficient C. Bulk modulus D. Compressibility
3	The electrical conductivities of insulators are ranging from	A. 10^{-5} to 10^{-10} ($\Omega\ m$) B. 10^{-10} to 10^{-15} ($\Omega\ m$) C. 10^{-5} to 10^{-15} ($\Omega\ m$) D. 10^{-10} to 10^{-20} ($\Omega\ m$)
4	Arsenic antimony or phosphorus are impurities of	A. p-type B. n-type C. May be p-type or n-type D. None of these
5	In a soft iron, domains are	A. easily oriented along external field and do not return to original random positions B. easily oriented along external field and readily returns to originally random positions C. do not oriented along external field and also do not returns to original random position D. none of them
6	The critical temperature of lead is	A. 1.18 K B. 4.2 K C. 3.72 K D. 7.2 K
7	If band gap between valence and conduction band material is 5 eV. The material is	A. Insulator B. Good conductor C. Semiconductor D. Such material are not exist
8	Examples of polymers are	A. Polythene B. Polystyrene C. Nylon D. All of them
9	In the doping process, the ratio of the doping atoms to the semi-conductor atom is	A. 1 to 10 B. 1 to 10^3 C. 1 to 10^6 D. 1 to 10^9

10	The valence energy band can never be	A. Filled B. Partially filled C. Empty D. None of these
11	Young's modulus for diamond is	A. 700 B. 913 C. 1100 D. 1120
12	Which of the given elements is a diamagnetic material	A. Antimony B. Bismuth C. Copper D. All of these
13	The maximum stress that a body can tolerate is called	A. UTS B. Permanent stress C. Elastic strength D. Plastic stress
14	The temperature at which the vibrations become so great that structure of the crystal breaks up, is called:	A. Critical temperature B. Temperature of vaporization C. Melting point D. Both A and C E. Both A and B
15	Crystalline solids are also	A. Metals B. Ionic compound C. Ceramics D. All of them
16	Metals are good conductors of electricity and their conductivities are of the order of	A. 10^3 (" Ω m⁻¹) B. 10^4 (" Ω m⁻¹) C. 10^6 (" Ω m⁻¹) D. 10^7 (" Ω m⁻¹)
17	Semi-conductor elements have atoms with	A. 2 valence electrons B. 3 valence electrons C. 4 valence electrons D. 5 valence electrons
18	A cable breaks if stretched by more than 2mm, it is cut into two equal parts. How much either part can be stretched without breaking?	A. 25 m B. 1 mm C. 2 mm D. 0.5 m
19	A wire can support a load W without breaking. It is cut into two equal parts. The maximum load that each part can support is:	A. W/4 B. W/2 C. W D. 2 W
20	The ability of anybody to return, to its original shape is called	A. Elasticity B. Elastic force C. Stress D. Strain