

MDCAT Physics Chapter 13 Deformation of Solids MCQ's Test

Sr	Questions	Answers Choice
1	Which of the following have the same unit:	A. Both (A) and (C) B. Both (A) and (B) C. Modulus elasticity D. Strain E. Stress
2	When an atom is surrounded by large number of atoms their the energy levels are	A. Distinct B. Very close C. Energy band D. None of these
3	While vibrating the atoms are at their	A. Fixed positions B. Extreme position C. Average positions D. None of these
4	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
5	Shear modulus for steel is	A. 20 B. 84 C. 95 D. 202
6	When a stress changes length, it is called the	A. compressional stress B. tensile stress C. shear stress D. any one of them
7	What is the bulk modulus of a material?	A. strain/volumetric strain B. volumetric stress/strain C. stress/volumetric strain D. volumetric stress/volumetric strain
8	The band above the valence band is called	A. high energy band B. conduction band C. empty band D. none of them
9	Breaking load for units area of cross-section of a wire is called:	A. Tensile strength B. Ductibility C. Yield point D. Breaking stress
10	Young's modulus for ice is	A. 3 B. 14 C. 20 D. 32
11	Which of the material have largest value of young's modulus	A. Copper B. Diamond C. Aluminum D. Iron
12	Shear modulus for water is	A. - 4.7 B. - 3.3 C. - 1.2 D. 0
13	Amorphous materials have the properties of solids like	A. No structure B. Like liquid C. Glassy D. a and c
14	S.I unit of stress is	A. N/m B. N m C. Nm^{-2} D. newton
15	Such substances which break soon after they cross elastic limit is called	A. Weak substance B. Ductile substance C. Brittle substance D. None of these

16	Young's modulus for diamond is	A. 700 B. 913 C. 1100 D. 1120
17	The critical temperature of aluminum is	A. 1.18 K B. 4.2 K C. 3.72 K D. 7.2 K
18	The fractional change in volume per unit increase in pressure is called	A. Pressure coefficient B. Volume coefficient C. Bulk modulus D. Compressibility
19	Which of the following pairs is not correct	A. Strain - dimensional B. Stress - N/m^2 C. Modulus of elasticity - N/m^2 D. Shear stress - N/m^2
20	Acceptor impurities donate	A. Holes B. Electrons C. Both Electrons and Holes D. None of them
