

## MDCAT Physics Chapter 13 Deformation of Solids MCQ's Test

Sr	Questions	Answers Choice
1	1 <sup>st</sup> superconductor was discovered in year	A. 1890 B. 1930 C. 1895 D. 1911
2	The SI unit of stress is same as that of	A. Momentum B. Pressure C. Force D. Length
3	Amorphous solids:	A. Have definite melting point B. Are called glassy solids C. Have no definite melting point D. Both B and C E. Both A and C
4	A wire length L and radius r is fixed at one end and force F applied another end produces an extension x The extension produced in another wire of the same material of length 2L and radius 2r by force 2F is	A. 1 B. 1 C. 21 D. 41
5	The each atom of pure Ge or Si shares neighboring electrons are	A. Three B. Four C. Five D. None of these
6	The magnetic fields are produced by the	A. Moving charges B. Bar magnets C. Motion of conductor in a magnetic field D. All of them
7	Lead, copper and wrought iron are examples of	A. brittle substances B. ductile substances C. plastic substances D. elastic substances
8	The results of mechanical tests are usually expressed in terms of	A. stress B. strain C. stress and strain D. neither stress nor strain
9	The value of shear modulus is zero for:	A. Water B. Mercury C. Diamond D. Both (A) and (B) E. Both (A) and (C)
10	In between two consecutive permissible energy band there is a range of energy states which cannot be occupied by electrons. These are called	A. Energy band B. Energy states C. Forbidden energy gap D. None of these
11	Which of the following theory completely explain the three types of materials?	A. Bohr model of electron distribution B. Rutherford atomic model C. Pauli's exclusion principle D. energy band theory
12	The dimension of elastic modulus	A. $ML^{-1}T^2$ B. $MLT^{-2}$ C. $ML^{-1}T^{-2}$ D. $MLT^{-3}$
13	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
14	The valence band of an atom in a solid	A. is always empty B. may or may not be empty C. can never be empty D. none of them

15	The valency of electron in the valence band is known as	A. Atom B. Molecule C. Hole D. None of these
16	Conductors are those materials in which the free electrons	A. Very large B. Very small C. Plenty of; D. None of these
17	Solids which have no regular atomic structure are called	A. Crystalline solid B. elastic solid C. Glassy solid D. All of these
18	The metals become electrically conducting due to their	A. Ductility B. Hardness C. Structure D. All of them
19	The main reason for the high speed of bullet train is	A. Magnetic effect B. Reduced friction C. Design of train D. None of these
20	Steel is more elastic than rubber because	A. It is a metal B. Its density is higher C. Ratio of stress to strain is more D. Ratio of stress to strain is less