

MDCAT Physics Chapter 13 Deformation of Solids MCQ's Test

Sr	Questions	Answers Choice
1	The substance, which exists in two or more crystal forms under different conditions is called:	A. Isomorphism Substance B. Allotropic substances C. True substances D. Polymorphous substances
2	Stress that induces a change in the shape of the body is named as	A. Tensile stress B. Volumetric stress C. Shear stress D. None of these
3	_____ does not have linear strain	A. Water B. Copper C. Aluminum D. Iron
4	An atom in which there is a resultant magnetic field, behaves like a tiny magnet and is called as	A. magnetic B. magnetic dipole C. magnetic monopole D. none of them
5	Diamagnetic substances are those in which	A. Spin and orbital motions are supported B. Spin and orbital motions are opposed C. Resultant of spin and orbital motion is zero D. None of these
6	Bulk modulus is involved when the deformation is:	A. One dimensional B. Two dimensional C. Three dimensional D. Any of these E. None of these
7	The magnetism produced by electrons within an atom is due to	A. Spin motion B. Orbital motion C. Spin and orbital motion D. None of these
8	Insulators are those material in which energy gap is	A. very large (several eV) B. very narrow (= 1ev) C. either of them D. none of them
9	The insulators have conductivities lies in the range	A. 10^{-10} to 10^{-20} (Ωm) B. 10^{-5} to 10^{-20} (Ωm) C. 10^{-15} to 10^{-25} (Ωm) D. None of these
10	Bulk modulus for lead is	A. 2.9 B. 7.7 C. 9.3 D. 15.6
11	In the phenomenon of hysteresis.	A. magnetism leads the magnetising current B. magnetism lags behind the magnetising current C. magnetism goes along the magnetising current D. none of them
12	Each atom in a metal crystal:	A. Remains fixed B. Vibrates about a fixed point C. Moves randomly D. Rotates about the centre of the crystal E. None of these
13	The strain is the ratio of	A. Stress/strain B. Strain/stress C. Force area

14 Shear modulus for ice is
A. 1.2
B. 2.5
C. 3
D. 3.3

15 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

16 A unit set is the smallest basic structure which is:
A. One dimensional
B. Two dimensional
C. Three dimensional
D. Four dimensional
E. None of these

17 An atom in which there is a resultant magnetic field behave like a
A. Tiny magnet
B. Magnetic dipole
C. No magnet
D. a and b

18 Which of the following pair of quantities do not have the same units?
A. Stress, Young's modulus
B. Strain, bulk modulus
C. Stress, bulk modulus
D. None of them

19 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

20 _____ is a pattern which has got one more atom at the centre of a simple cube.
A. Simple cube
B. Face centered cube
C. Body centered cube
D. None of these
