

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

Sr	Questions	Answers Choice
1	The motion of a charged nucleus also produces a magnetic field which is	A. Weaker than orbital electrons B. Stronger than orbital electrons C. Equal than orbital electrons D. None of these
2	The symbol K and G have been used to denote respectively:	A. Young's modulus and bulk modulus B. Young's modulus and shear modulus C. Bulk modulus and shear modulus D. Any of these E. None of these
3	Young's modulus for bone is	A. 10 B. 15 C. 20 D. 25
4	The forbidden energy gap in semiconductors	A. Lies just below the valence band B. Lies just above the conduction band C. Is the same as the valence band D. Lies between the valence band and conduction band
5	Such substances which break soon after they cross elastic limit is called	A. Weak substance B. Ductile substance C. Brittle substance D. Organic substance
6	Solids have sharp melting points account of	A. Long range order of atoms B. Short range order of atoms C. Equal strength of inter-atomic bonds D. An isotropic nature
7	The word amorphous means:	A. Without any structure B. With define structure C. Regular arrangement of molecules D. Both B and C E. None of these
8	Recently a complex crystalline structure known as Yttrium Barium Copper Oxide have been reported to become superconductor at	A. 125 K B. 25 K C. 263 K D. 163 K
9	The SI unit of stress is same as that of	A. Momentum B. Pressure C. Force D. Length
10	Within each domain, the magnetic fields of all the spinning electrons are	A. parallel B. antiparallel C. perpendicular D. all of them
11	A semiconductor is known to have an electron concentration of $8 \times 10^{13}$ per $\text{cm}^3$ and hole concentration of $5 \times 10^{12}$ per $\text{cm}^3$ the semiconductor is	A. n-type B. P-type C. Intrinsic D. None of these
12	A substance which have empty conduction band is called	A. Conductor B. Insulator C. Semiconductor D. None of these
13	Examples of polymeric substances are:	A. Plastic B. Synthetic rubbers C. Zirconia D. All of these E. Both A and B
		A. One dimensional

14	Polymeric solids have the structure	B. Two dimensional C. Zero dimension D. Three dimensional
15	Ductility is the property of a substance in which a material undergoes the deformation as	A. Elastic deformation B. Plastic deformation C. Shear deformation D. None of these
16	A bullet train move with the velocity of	A. 400 Km <sup>-1</sup> B. 460 Km <sup>-1</sup> C. 500 Km <sup>-1</sup> D. 510 Km <sup>-1</sup>
17	In Insulators the conduction band is	A. Empty B. Partially filled C. Full D. None of these
18	The bands below the valence band are	A. completely filled and play active part in conduction process B. completely filled and plays no part in conduction process C. not completely filled and play active part in conduction process D. not completely filled and play no part in conduction process
19	A special alloy called Alnico is known as	A. Soft magnetic material B. Hard magnetic material C. In between soft and hard magnetic material D. None of these
20	Strain is defined in terms of:	A. Formation B. Deformation C. Area D. Newtons E. None of these