

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

Sr	Questions	Answers Choice
1	Each atom in a metal crystal:	A. Remains fixed B. <span style="color: green;">Vibrates about a fixed point</span> C. Moves randomly D. Rotates about the centre of the crystal E. None of these
2	Young's modulus for bone is	A. 10 B. <span style="color: green;">15</span> C. 20 D. 25
3	In conductors, the valence band and conduction bands are	A. Touch each other B. Overlapped each other C. <span style="color: green;">Largely overlapped</span> D. None of these
4	Which of the given strains can also be written as $\tan \theta$	A. Compressional strain B. Volumetric strain C. <span style="color: green;">Shear strain</span> D. All of these
5	Super conductors are materials like	A. Alloys B. Ceramic C. Semiconductors D. <span style="color: green;">a and b</span>
6	Bulk modulus for brass is	A. 20 B. 41 C. <span style="color: green;">61</span> D. 81
7	The ability of the body to return to its original shape is called	A. deformation B. stretching C. compressing D. <span style="color: green;">elasticity</span>
8	When a silicon crystal is doped with a trivalent element, such an extrinsic semi-conductor is called	A. <span style="color: green;">p-type semi-conductor</span> B. n-type semi-conductor C. either of them D. none of them
9	The valence energy band can never be	A. Filled B. Partially filled C. <span style="color: green;">Empty</span> D. None of these
10	Glass is an example of	A. crystalline solid B. <span style="color: green;">amorphous solid</span> C. polymeric solid D. none of them
11	The value of young's modulus is maximum for:	A. <span style="color: green;">Diamond</span> B. Copper C. Ice D. Mercury E. Water
12	The substances which break just after the elastic limit is reached are known as:	A. Ductile B. <span style="color: green;">Brittle</span> C. Malleable D. Hard E. Soft
13	The magnetism produced by electrons within an atom can arise from	A. electrons orbiting the nucleus B. electrons orbiting the nucleus C. <span style="color: green;">both motions</span> D. none one these motions
14	Bulk modulus for copper is	A. 50 B. 75 C. <span style="color: green;">140</span> D. 147

15	When a crystal is subjected to stress, it tends to break or fracture along definite direction which is characteristic of a simple. This is called	A. Cleavage B. Allotropy C. Isotropy D. None of these
16	The value of shear modulus is zero for:	A. Water B. Mercury C. Diamond D. Both (A) and (B) E. Both (A) and (C)
17	If a wire is stretched to double of its length then the strain will be	A. 1 B. 0.5 C. 2 D. 0
18	What is the Young modulus of a meta?	A. Extension/force B. Force/extension C. Strain/stress D. Stress/strain
19	The ratio of shearing stress/shearing strain is called as	A. modulus B. Pascal modulus C. Hooke's modulus D. shear modulus
20	The electrons occupying the conduction band are known as	A. conduction electrons B. free electrons C. both of them D. none of them