

## Physics ECAT Pre Engineering Chapter 17 Physics of Solid Online Test

Sr	Questions	Answers Choice
1	Each atom in a metal crystal vibrates about a fixed point with an amplitude that:	A. Decrease the rise in temprature B. Is not affected by rise in temprature C. Increase with rise in temprature D. Both (B) and (C) E. None of these
2	When a stress changes length, it is called the	A. compressional stress B. tensile stress C. shear stress D. any one of them
3	Ferromagnetic substances lose their magnetism when heated above a certain temperature, known as	A. critical temperature B. curie temperature C. high temperature D. fixed temperature
4	The units of modulus of elasticity are	A. Nm <sup>-2</sup> B. Nm C. ms <sup>-1</sup> D. Pascal
5	There are some whose resistivity becomes zero below a certain temperature, called	A. absolute zero B. 0 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°C</span> C. critical temperature D. lower fixed point
6	Polymeric solids have	A. low specific gravity B. high specific gravity C. either of them D. none of them
7	The substances in which, atom are so oriented that their fields support each other and the atoms behave like tiny magnets, are called	A. diamagnetic substances B. ferromagnetic substances C. paramagnetic substances D. all of them
8	The curie temperature of iron is about	A. 250 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°C</span> B. 500 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°C</span> C. 750 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°C</span> D. 1000 <span style="color: rgb(84, 84, 84); font-family: arial, sans-serif; font-size: small;">°C</span>
9	The whole structure obtained by the repetition of unit cells is called:	A. Crystal lattice B. Amorphous solid C. Polymeric solid D. Polysterne E. None of these
10	The materials in which valence electrons are bound very tightly to their atoms and are not free, are known as	A. conductors B. insulators C. semi-conductors D. all of them
11	Recently a complex crystalline structure known as Yetrium Barium Copper Oxide have been reported to become superconductor at	A. 125 K B. 25 K C. 263 K D. 163 K
12	In metallic crystals which of the following thing remains constant	A. amplitude of oscillations     B. temperature of solid     C. average atomic positions     D. all of them
13	Amorphous solids are also more like	A. crystalline solids B. gases

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14	The amplitude of oscillation of each atom in a metallic crystal rises with the	A. rise in temperature B. decrease in temperature C. even temperature remains constant D. all of them
15	Arsenic, antimony and phosphorus are the elements from	A. third group B. fourth group C. fifth group D. none of them
16	The molecules or ions in a crystalline solids are	A. static B. not static C. randomly moving D. all of them
17	Experiments revealed that the ratio of the stress to the strain is a constant value for	A. different material B. all materials C. a given material D. all of them
18	The solids which has structure in-between order and disorder are called	A. amorphous solids B. polymeric solids C. crystalline solids D. all of them
19	The transition from solid to liquid is actually from:	A. Order to disorder B. Disorder to order C. Order to order D. Disorder to disorder E. None of these
20	Substances which break just after the elastic limit is reached, are known as	A. brittle substances B. ductile substances C. plastic substances D. elastic substances