

ECAT Physics Chapter 17 Physics of Solids

Sr	Questions	Answers Choice
1	There are some whose resistivity becomes zero below a certain temperature, called	A. absolute zero B. 0 °C C. critical temperature D. lower fixed point
2	If the stress increased beyond the elastic limit of the material, the deformation produced in the material will be	A. permanent B. temporary C. either of them D. none of them
3	Zirconia is classified as:	A. Ceramic solid B. lonic compound C. Metal D. Either (A) or (B) E. Either (B) or (C)
4	Which of the following can become a good permanent magnet	A. iron B. steel C. both of them D. none of them
5	The vast majority of solids are in the form of	A. amorphous structure B. polymeric structure C. crystalline structure D. all of them
6	When a silicon crystal is doped with a pentavalent element, then the atom of the pentavalent element is known as	A. acceptor B. donor C. either of them D. none of them
7	The materials in which there are plenty of free electrons for electrical conduction are known as	A. conductors B. insulators C. semi-conductors D. all of them
8	The conduction band in a solid	A. may be empty B. cannot be empty C. should be filed D. all of them
9	Every crystalline solid has	A. definite melting point B. different melting points C. may or may not be definite D. none of them
10	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
11	Tick the one which is not a crystalline solid:	A. Zirconia B. Glass C. Copper D. Ceramic solid E. An ionic compound
12	The band above the valence band is called	A. high energy band B. conduction band C. empty band D. none of them
13	The domains are of macroscopic size of the order of	A. centimeters B. meters C. millimeters D. nanomneters
14	Polymers are the chemical combination of carbon with:	A. Nitrogen B. Oxygen C. Hydrogen D. All of these

		E. None of these
15	The measure of the deformation in a solid when stress is applied to its is called	A. elastic constant B. young's modulus C. strain D. elasticity
16	In a semi-conductor material, the total current is	A. only the +ve current B. only the electronic current C. sum of +ve and electronic current D. all of them
17	In the stress-strain graph, stress is increased linearly with strain until a point is reached, this point is known as	A. plastic limit B. plastic deformation C. proportional limit D. elastic behaviour
18	Crystalline solids are in the form of:	A. Metals B. lonic Compounds C. Ceramics D. Both (A) and (B) E. All of these
19	In the doping process, the ratio of the doping atoms to the semi conductor atom is	A. 1 to 10 B. 1 to 10 ³ C. 1 to 10 ⁶ D. 1 to 10 ⁹
20	The arrangement or molecules or atoms in a crystalline solid can be studied by using:	A. Chemical methods B. Neutrons C. X-ray techniques D. Copper atoms E. Both (A) and (B)