

## ECAT Physics Chapter 17 Physics of Solids

Sr	Questions	Answers Choice
1	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
2	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
3	Polymeric solids have	A. low specific gravity B. high specific gravity C. either of them D. none of them
4	The electrons in the outermost shell of an atom are called	A. core electrons B. valence electrons C. high energy electrons D. none of them
5	Which of the following can become a good permanent magnet	A. iron B. steel C. both of them D. none of them
6	In a cubic crystal, All solids meet at:	A. 60 <sup>o</sup> B. 90 <sup>o</sup> C. 109 <sup>o</sup> D. 30 <sup>o</sup> E. 10 <sup>o</sup>
7	Examples of polymeric substances are:	A. Plastic B. Synthetic rubbers C. Zirconia D. All of these E. Both (A) and (B)
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 number of different crystals systems based on the geometrical arrangement of their atoms and the resultant geometrical structure are	A. 5 B. 7 C. 9 D. 14
10	Electrons of an isolated atom are bound to the nucleus, and	A. can only have distinct energy level B. can only have same energy level C. may or may not have distinct energy levels D. none of these
11	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
12	The conduction band in a solid	A. may be empty B. cannot be empty C. should be filled D. all of them
13	Which of the following can become a good temporarily magnet	A. iron B. steel C. both of them D. none of them
14	The molecules or ions in a crystalline solids are	A. static B. not static C. randomly moving D. all of them

15	The SI unit of stress is	B. Nmc C. dynes/m D. N
16	The critical temperature of tin is	A. 1.18 K B. 4.2 K C. 3.72 K D. 7.2 K
17	Tick the one which is not a crystalline solid:	A. Zirconia B. Glass C. Copper D. Ceramic solid E. An ionic compound
18	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
19	Lead, copper and wrought iron are examples of	A. brittle substances B. ductile substances C. plastic substances D. elastic substances
20	In a soft iron, domains are	A. easily oriented along external field and do not return to original random positions B. easily oriented along external field and readily returns to originally random position C. do no oriented along external field and also do not returns to originally random position D. none of them