

## ECAT Physics Chapter 17 Physics of Solids

Sr	Questions	Answers Choice
		A. static B. not static
1	The molecules or ions in a crystalline solids are	C. randomly moving D. all of them
2	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)
3	An atom in which there is a resultant magnetic field, behaves like a tiny magnet and is called as	A. magnetic B. magnetic dipole C. magnetic monopole D. none of them
4	A unit cell is smallest basic structure which is:	A. One dimensional     B. Two dimensional     C. Three dimensional     D. Four dimensional     E. None of these
		A. an irregular manner
5	The neighbours of every molecule in crystalline solids are arranged in	B. a regular manner C. any manner D. none of them
	Examples of crystalline solids are:	A. Cooper B. NaCl
6		C. Zirconia D. Both (A) and (B) E. All of these
7	The maximum stress that a material can withstand, is known as	A. plastic point B. elastic limit
		C. yield point D. ultimate tensile strength
8	When a stress changes length, it is called the	A. compressional stress B. tensile stress
		C. shear stress D. any one of them
	The transition from solid state to liquid state is:	A. Abrupt B. Slow
9		C. Continous D. Discontinous E. Both (A) and (D)
40		A. Nm <sup>-2</sup> B. Nm
10	The units of modulus of elasticity are	C. ms <sup>-1</sup> D. Pascal
11	Polymeric solids have	A. low specific gravity B. high specific gravity
	T GYMONG SOILES HAVE	C. either of them D. none of them
		A. An ordered structure B. A disordered structure
12	A structure of polymeric solid is:	C. Intermediate between order and disorder D. Any of these
		E. None of these
13	When a stress changes the shape, it is called the	A. compressional stress B. tensile stress
		C. shear stress D. any one of them
14	The substance in which atoms cooperate with each other in such a way so as to exhibit a strong magnetic effect, are called	A. diamagnetic substances     B. ferromagnetic substances     C. paramagnetic substances

		D. all of them
15	Amorphous solids:	A. Have definite melting points B. Are called glassy solids C. Have no definite melting point D. Both (B) and (C) E. Both (A) and (C)
16	The modulus of elasticity can be written as	A. stress x strain B. strain/stress C. 1/2 x stress x strain D. stress/strain
17	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
18	Each atom in metal crystal:	A. Remains fixed B. Vibrates about a fixed point C. Moves randomly D. Rotates about center of a crystal E. None of these
19	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
20	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