

ECAT Pre General Science Physics Chapter 17 Physics of Solids

Sr	Questions	Answers Choice
1	The arrangement of 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)
2	Arsenic, antimony and phosphorus are the elements from	A. third group B. fourth group C. fifth group D. none of them
3	Recent studies of ferromagnetism have shown that there exists in ferromagnetic substances small regions called	A. tiny regions B. domains C. vectors D. none of them
4	When relatively simple molecules are chemically combined into massive molecules, the reaction is called:	A. Fission reaction B. Fusion reaction C. Polymerization D. Any of these E. None of these
5	Under the elastic region, the deformation produced in the material, the deformation produced in the material will be	A. permanent B. temporary C. either of them D. none of them
6	The word amorphous means:	A. Without any structure B. With definite structure C. Regular arrangement of molecules D. Both (B) and (C) E. None of these
7	Crystalline solids are in the form of:	A. Metals B. Ionic Compounds C. Ceramics D. Both (A) and (B) E. All of these
8	Tick the one which is not a crystalline solid:	A. Zirconia B. Glass C. Copper D. Ceramic solid E. An ionic compound
9	The measure of the deformation in a solid when stress is applied to it is called	A. elastic constant B. young's modulus C. strain D. elasticity
10	The bands below the valence band are	A. completely filled and play active part in conduction process B. completely filled and plays no part in conduction process C. completely filled and play active part in conduction process D. not completely filled and play no part in conduction process
11	The 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
12	The pattern of crystalline solid is:	A. One dimensional B. Two dimensional C. Three dimensional D. None of these E. Either (A) or (B)
13	The magnetism produced by electrons within an atom can arise from	A. electrons orbiting the nucleus B. electrons posses a spin C. both motions D. none of these motions

14 The neighbours of every molecule in crystalline solids are arranged in
A. an irregular manner
B. a regular manner
C. any manner
D. none of them

15 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

16 The units of modulus of elasticity are
A. Nm^2
B. Nm
C. m^2s^{-1}
D. Pascal

17 When a stress changes the shape, it is called the
A. compressional stress
B. tensile stress
C. shear stress
D. any one of them

18 The ability of the body to return to its original shape is called
A. deformation
B. stretching
C. compressing
D. elasticity

19 Polymers are the chemical combination of carbon with:
A. Nitrogen
B. Oxygen
C. Hydrogen
D. All of these
E. None of these

20 When a large number of atoms are brought close to one another to form a solid, each energy level of an isolated atom splits into sub-levels, called
A. energy bands
B. energy shells
C. states
D. all of them