ECAT Physics Chapter 17 Physics of Solids

Sr	Questions	Answers Choice
1	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
2	On heating, glass gradually softens into a paste like before it becomes a very viscous liquid at almost	A. 600°C B. 7600°C C. 800°C D. 900°C
3	Within each domain, the magnetic field of all the spinning electrons are	A. parallel B. antiparallel C. perpendicular D. all of them
4	Which of the following can become a good permanent magnet	A. iron B. steel C. both of them D. none of them
5	There is a regular arrangement of molecules in a	A. amorphous solids B. polymeric solids C. crystalline solids D. none of them
6	Any superconductor with critical temperature above 77 K, is referred as	A. low temperature superconductor B. high temperature superconductor C. very low temperature superconductor D. none of them
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	The electrons occupying the conduction band are known as	A. conduction electrons B. free electrons C. both of them D. none of them
9	The doped semi-conductor materials are known as	A. intrinsic semi-conductor B. extrinsic semi-conductor C. either of them D. none of them
10	Amorphous solids are also more like	A. crystalline solids B. gases C. liquids D. any one of them
11	The ability of the body to return to its original shape is called	A. deformation B. stretching C. compressing D. elasticity
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	An ordinary glass gradually softens into a 'paste -like' state before it becomes a very viscous liquid. It happens almost at:	A. 800^oC B. 500^oC C. 300^oC D. 100^oC E. None of these
14	The valence band of an atom in a solid	A. is always empty B. may or may not be empty C. can never be empty

		D. none of them
15	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)
16	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
17	The bonding between the semi-conductor materials is	A. covalent B. ionic C. either of them D. none of them
18	The units of modulus of elasticity are	A. Nm⁻² B. Nm C. ms⁻¹ D. Pascal
19	Which of the following theory completely explain the three types of materials	A. Bohr model of electron distribution B. Rutherford atomic model C. Pauli's exclusion principle D. energy band theory
20	When a stress changes the shape, it is called the	A. compressional stress B. tensile stress C. shear stress D. any one of them