1.	A crystalline solid has (a) an ordered structure (c) only vibrational energy	(b) low KE (d) rotational energy		
2.	A solid having irregular arrangement of molecules is			
	called (a) polymeric (c) amorphous	(b) ideal (d) crystalline		
3.	Molecules of a solid posse (a) polymeric structure (c) rotatory motion			
4.	Array of points representing atoms, ions or molecules of a crystal arranged at different sites in a three-dimensional space is called			
	(a) crystal lattice (c) substance	(b) solid(d) compound		
5.	Force applied on a unit ar (a) stress (c) flexibility	rea of a crystal is called (b) strain (d) elasticity		
6.	SI unit of stress is	(L) N		
	(a) N-m ⁻² (c) dynes m ⁻¹	(b) N (d) N x m		
7.	A stress that changes one (a) compressive stress (c) linear stress	e dimension only is called (b) compressive stress (d) linear strain		
8.	Strain is the ratio of (a) $\frac{\text{Force}}{\text{Area}}$	(b) force x area		

	(c) $\frac{\text{Force}}{\text{Length}}$	(d) Change in length Original length
9.	The ratio of volumetric str (a) Shear modulus (c) Young's modulus	ress to volumetric strain is called (b) Bulk modulus (d) Shear strain
10.	SI unit of stress is same a (a) force (c) pressure	s that of (b) momentum (d) length
11.	The dimension of strain is (a) dimensionless (c) $[L^{-1}]$	(b) [L] (d) [LT ⁻¹]
12.	Crystals are classified into (a) infinite groups (c) four groups	
13.	The maximum stress that (a) elastic stress (c) UTS	a body can withstand is called (b) plastic stress (d) permanent stress
14.	NaCl has (a) cubical structure (c) tetragonal structure	(b) trigonal structure(d) Hexagonal structure
15.	Which one of the following statements is correct? (a) Iron is less elastic than rubber (b) Iron is more elastic than rubber (c) Water is less elastic than air (d) Water is equally elastic as air	
16.	A substance that undergonal called (a) ductile (c) ceramic	oes a temporary deformation is (b) brittle (d) organic
17.	Glass is treated as solid lie (a) is beautiful and hard	quid because it

(b) is hard and has arranged molecules

	-	
(a) $10^7 (\Omega - m)^{-1}$	(b) 10^{-6} to 10^{-4} (Ω -m) ⁻¹	
• /		
A doped semi conductor is (a) P type (c) extrinsic	called (b) N type (d) intrinsic	
A pure semi conductor is of (a) N type (c) intrinsic	called (b) P type (d) extrinsic	
A trivalent impurity is usu (a) acceptor (c) rectifier	ally called (b) donor (d) transistor	
Choose the correct answer: (a) An elastic deformation is reversible (b) An elastic deformation is irreversible (c) A plastic deformation is reversible (d) A plastic deformation is neither reversible nor irreversible		
The stress $\boldsymbol{\sigma}$ required to	fracture a solid is $\sigma = k \left(\frac{\gamma E}{d}\right)^{\frac{1}{2}}$	
where k is a dimensionles and d is the distance separated in fracture. The (a) energy per unit area	s constant, E is Young's modulus between the planes of atoms quantity γ must be (b) energy	
	Conductivity of insulator is (a) $10^7(\Omega-m)^{-1}$ (c) 10^{-10} to 10^{-20} ($\Omega-m$) ⁻¹ The conduction band lies (a) below valence band (c) inside the valence band A doped semi conductor is (a) P type (c) extrinsic A pure semi conductor is of (a) N type (c) intrinsic A trivalent impurity is usu (a) acceptor (c) rectifier Choose the correct answer (a) An elastic deformation is (b) An elastic deformation is (c) A plastic deformation is re (d) A plastic deformation is not the stress or required to the stress or r	

(c) is transparent(d) has irregularly arranged molecules

26. Crystalline solids have

- (a) a short range order
- (b) a long range order
- (c) weak bonds for nearest neighours
- (d) none of these

27. The amorphous solids have

- (a) a short range order
- (b) a long range order
- (c) neither short nor long range order
- (d) regular structure

28. Choose the correct statement:

- (a) Conductors have no free electrons acting as charge carrier
- (b) Conductors have a few free electrons acting as charge carriers
- (c) Conductors have large free electrons acting as charge carriers
- (d) Insulators have large free electrons acting as charge carriers

29. Which one of the followings is / are a semiconductor?

(a) carbon

(b) phosphorous

(c) silicon

(d) all of these

30. Electric conduction in a semi conductor takes place due to the movement of

(a) electrons

(b) protons

(c) holes

(d) both electrons and holes

31. On increasing the temperature of a semiconductor

- (a) the number of charge carriers will increase
- (b) the number of charge carriers will decrease
- (c) the average drift speed will increase
- (d) the resistance of the semiconductor will increase

32. To make a p-type semi conductor, pure silicon should be doped with the atoms of

- (a) Germanium
- (b) Phosphorous

(c) Antimony

(d) Boron

33. Choose the correct answer:

- (a) p-type semiconductor is positively charged
- (b) p-type semiconductor is negatively charged
- (c) n-type semi conductor is negatively charged
- (d) p-type semi conductor is uncharged

34. The electrical resistivity of pure germanium can be decreased by

- (a) decreasing the temperature only
- (b) doping with donor impurities only
- (c) doping with acceptor impurities only
- (d) doping with either donor or acceptor impurities

35. A semi conductor is doped with an acceptor impurity. Then the

- (a) electron concentration will increase
- (b) hole concentration will increase
- (c) electron concentration will decrease
- (d) hole concentration will decrease

36. Which of the following substances is / are diamagnetic?

(a) zinc

(b) copper

(c) silver

(d) all of these

37. The magnetization as well as demagnetization of

- (a) steel is easy
- (b) soft iron is difficult
- (c). steel is difficult
- (d) both soft iron and steel is difficult

38. A permanent magnet must have

- (a) high retentivity
- (b) low retentivity
- (c) low coercive force
- (d) low Curie's temperature

39. A paramagnetic material is placed in a magnetic field. The magnetization is increased if the

- (a) temperature is increased
 - (b) temperature is decreased
- (c) magnetic field is reversed
- (d) none of these

40. The loop area of the hysteresis curve is

- (a) greater for soft iron than for steel
- (b) greater for steel than for soft iron.
- (c) equal for both steel and soft iron
- (d) zero for soft iron.

Key to Test Chapter 17

-	_	2.1	_
1	a	21	С
2	С	22	С
3	d	23	a
4	а	24	b
5	а	25	а
6	а	26	b
7	С	27	а
8	d	28	С
9	b	29	d
10	С	30	d
11	a	31	а
12	b	32	d
13	С	33	d
14	а	34	d
15	b	35	b
16	С	36	d
17	b	37	С
18	С	38	а
19	С	39	b
20	b	40	b