MDCAT Physics Chapter 13 Deformation of Solids MCQ's Test

Sr	Questions	Answers Choice
1	_____ is a cubic pattern having one extra atom or molecule at the centre of each of the six faces of the cube	A. Simple cube B. Face centered cube C. Body centered cube D. None of these
2	Which of the following is not true for a crystalline substance	A. Shorter range order B. Isotropic electrical conductivity C. Flat surface D. Sharp melting point
3	When a stress changes length, it is called the	A. compressional stress B. tensile stress C. shear stress D. any one of them
4	Glass is an example of	A. crystalline solid B. amorphous solid C. polymeric solid D. none of them
5	The young modulus of steel is greater than that of aluminium. Keeping the statement above in mind state which of the following is true	A. Steel requires a larger stress on it for a given strain than does aluminium B. Aluminium requires more force than steel does to get a similar extension as steel C. Steel requires less force than aluminium does to get a similar extension as aluminium D. Steel requires a larger strain on it for a given stress than does aluminium
6	To get p-type semiconductor we add impurity from	A. 3rd group B. 4th group C. 5th group D. 6th group
7	Modulus elasticity of any materiel is of the order of:	A. 10⁵ B. 10² C. 10⁻² D. 10⁻⁵ E. 10⁻¹⁰
8	The forbidden energy gap in semiconductors	A. Lies just below the valence band B. Lies just above the conduction band C. Is the same as the valence band D. Lies between the valence band and conduction band
9	The modulus of elasticity of a liquid is:	A. Zero B. 1 C. Infinity D. A value not one of those mentioned above
10	polymeric solids have	A. low specific gravity B. high specific gravity C. either of them D. none of them
11	Which of the following strain are possible in solids	A. Linear B. Volumetric C. Shear D. All of these
12	In deformation of the material, the potential energy of the molecules due to displacement from their mean positions is	A. Lost B. Gained C. No lost no gain D. None of these
13	The curie temperature for iron is	A. 750°C B. 570°C C. 750°k

		D. 57°K
14	The dimensional formula for the modulus of elasticity is same as that for:	A. Stress B. Strain C. Velocity D. Surface tension
15	A wire is stretched by applying a stretching force.If the stretching force is doubled within elastic limit Then energy stored in the wire will	A. Be double B. Increase by four times C. Increase by eight time D. Remain same
16	The theory which explains the vast diversity in an electrical behaviour of all types the materials is	A. Free electron theory B. Band theory C. Theory based as chemical properties D. None of these
17	The results of mechanical tests are usually expressed in terms of:	A. Stress B. Applied force C. Strain D. Deformation E. All of these
18	The young s modulus for a perfect rigid body is	A. Zero B. 1 C. Infinite D. None of these
19	The size of the domains in such that they can contain	A. 10²to 10⁴atoms B. 10⁴to 10⁸atoms C. 10⁸to 10¹²atoms D. 10¹²to 10¹⁶atoms
20	A wire of 100 mm length and 1 mm^2surface area stretches 10 mm under a load of 60 N. A second wire of same material, with half the diameter of the first wire is stretched by the same load. What is the extension in the second wire?	A. 20 mm B. 30 mm C. 40 mm D. 50 mm