MDCAT Physics Chapter 13 Deformation of Solids MCQ's Test

Sr	Questions	Answers Choice
1	Such substances which break soon after they cross elastic limit is called	A. Weak substance B. Ductile substance C. Brittle substance D. Organic substance
2	Which of the following can become a good permanent magnet?	A. iron B. steel C. both of them D. none of them
3	The whole structure obtained by the repetition of unit cell is known as	A. Unit cell B. Crystal lattice C. Ore D. All of these
4	The cores of electromagnets used for alternating currents where the specimen repeatedly undergoes magnetization and demagnetization should have	A. broad hysteresis curves B. narrow hysteresis curves C. any one of the them D. none of them
5	Which one is ferromagnetic	A. Ferries B. Cobalt C. Nickel D. All
6	The whole structure obtained by the repetition of unit cells is called:	A. Crystal lattice B. Amorphous solid C. Polymeric solid D. Polystrene E. None of these
7	A body is in its state of stress when it is	A. Displaced from its equilibrium position B. Remains at rest when shape changed C. Their angles change D. All of them
8	On applying a stress of 20 x $10^{8}Nm^{-2}$, the length of perfectly elastic wire is doubled. Its young' modulus is	A. 40 x 10⁸N/m² B. 20 x 10⁸N/m² C. 10 x 10⁸N/m² D. 5 x 10⁸N/m²
9	A wire breaks of stretched by more than 3mm. It is cut into equal parts. Then each part can be stretched with out-breaking by	A. 0.75 mm B. 1.5 mm C. 3.0 mm D. 6.0 mm
10	Stress that induces a change in the shape of the body is named as	A. Tensile stress B. Volumetric stress C. Shear stress D. None of these
11	Those solid which breaks soon after crossing the elastic limit are called	A. Amorphous B. Glassy solid C. Crystalline solid D. Brittle
12	The young s modulus for a perfect rigid body is	A. Zero B. 1 C. Infinite D. None of these
13	Stress maybe:	A. Tensile B. Compressive C. Compressible D. All of these E. Both (A) and (B)
14	The ultimate tensile strength (UTS) can be regarded as the	A. Maximum strength of the material B. Nominal strength of the material

		C. Minimum strength of the material D. None of these
15	The electrical behavior of semiconductor depends on the material purity which is	A. Sensitive B. Extremely sensitive C. Non-sensitive D. None of these
16	When the stress change length of a body, it is called:	A. Shear stress B. Tensile stress C. Volume stress D. Any of these E. None of these
17	Unit cell has a basic structure of	A. One dimensional B. Two dimensional C. Three dimensional D. None of these
18	The expression of energy stored in an inductor of length L and current I can be expressed by a relation	A. 1/2 LI² B. 1/2 I²L C. 1/2 I²L² D. 1/2 IL
19	Crystalline solids are also	A. Metals B. Ionic compound C. Ceramics D. All of them
20	Conductors are those materials in which the free electrons	A. Very large B. Very small C. Plenty of D. None of these