MDCAT Physics Chapter 13 Deformation of Solids MCQ's Test

Sr	Questions	Answers Choice
1	When the deformation produced in the material becomes permanent, this type of behaviour is called	A. proportionality B. elasticity C. plasticity D. none of them
2	Polymeric solids have the properties like	A. No definite shape B. No definite structure C. Partially crystalline solids D. All of them
3	Young's modulus for tungsten is	A. 90 B. 190 C. 390 D. 590
4	The maintaining the elastic limits of any body, the relation stress to strains is called	A. Hooke's law B. Pascal's law C. Young's law D. None of them
5	Stress change the shape, volume or length of a body due to the	A. Applied force B. External force C. Force D. Force on unit area
6	A stress which is along one dimension is known as:	A. Tensile stress B. Linear stress C. Compressive stress D. Both (A) and (C) E. Both (A) and (B)
7	In a soft iron, domains are	A. easily oriented along external field and do not return to original random positions B. easily oriented along external field and readily returns to originally random positions C. do not oriented along external field and also do not returns to original random position D. none of them
8	Each atom in a metal crystal:	A. Remains fixed B. Vibrates about a fixed point C. Moves randomly D. Rotates about the centre of the crystal E. None of these
9	Bulk modulus is involved when the deformation is	A. One dimensional B. Two dimensional C. Three dimensional D. All of these
10	Young's modulus for diamond is	A. 700 B. 913 C. 1100 D. 1120
11	A solid subjected to deformation along one dimension	A. Only have tensile stress B. Only have compressive stress C. Have both tensile and compressive stress D. None of them
12	Shear modulus for copper is	A. 20 B. 27 C. 44 D. 43
13	Amorphous solids are more like	A. crystalline solids B. polymeric solids C. glassy solids D. any one of them

14	A steel wire 12 mm in diameter is fastened to a log and them pulled by a tractor. The length of stire between the log and tractor is 11 m. The force of 10,000 N is required to pull the log. What is stress	A. 84.46 MPa B. 85.46 MPa C. 88.46 MPa D. 89.46 MPa
15	When a stress changes length, it is called the	A. compressional stress B. tensile stress C. shear stress D. any one of them
16	The modulus of elasticity of material does not depend upon	A. Shape B. Temperature C. Nature of material D. Impurities mixed
17	The combination of solenoid and a specimen of iron inside it make a power full magnet called	A. Horse shoe magnet B. Bar magnet C. Electromagnet D. 10⁻¹⁰ to 10¹⁸
18	Young's modulus for copper is	A. 70 x 10 Nm⁻² B. 91 x 10 Nm⁻² C. 110 Nm⁻² D. None of these
19	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
20	Change in length divided by original length is called:	A. tress B. Young's modulus C. Strain D. Both (B) or (C) E. None of these