

MDCAT Physics Chapter 13 Deformation of Solids MCQ's Test

Sr	Questions	Answers Choice
1	The charged nucleus of an atom itself spins its magnetic field is	A. Equal to the field produced by orbital electrons B. Greater than the field produced by orbital electrons C. Much weaker than the field produced by orbital electrons D. Very strong
2	A mental wire is stretched by suspending weight to if x is the longitudinal strain and y is young s modulus of elasticity then the elastic potential energy per unit volume is	A. 1/2 y x ² B. x ² / 2y C. y ² / 2x D. x ² / 2y
3	1 st superconductor was discovered in year	A. 1890 B. 1930 C. 1895 D. 1911
4	Strain is dimensionless and has	A. Units B. No units C. S.I. units D. None of these
5	Shear stress addresses to the:	A. Volume changes due to the applied stress B. Shape changes due to the applied stress C. Length changes due to the applied stress D. All of the above
6	Which of the material have largest value of young's modulus	A. Copper B. Diamond C. Aluminum D. Iron
7	The expression of energy stored in an inductor of length L and current I can be expressed by a relation	A. 1/2 Ll ² B. 1/2 l ² L C. 1/2 l ² L ² D. 1/2 lL
8	N-type crystal is	A. Neutral B. Positively charged C. Negative charged D. None of these
9	A temperature at which the material losses its orderliness is know as	A. Ambient temperature B. Curie temperature C. Highest temperature D. None of these
10	The conductivities of conductors (metals) have	A. 10 ⁵ (Ω) ^{- 1} B. 10 ⁷ (Ωm) ^{- 1} C. 10 ⁸ (Ωm) ^{- 1} D. 10 ⁹ (Ωm) ^{- 1}
11	Shear modulus for bone is	A. 15 B. 40 C. 50 D. 80
12	Acceptor impurities donate	A. Holes B. Electrons C. Both Electrons and Holes D. None of them
13	The ratio of linear stress/linear strain is called	A. Yong's modulus B. Bulk modulus C. shear modulus D. modulus

14	Polythene,polystyrene and nylon are example of	A. Polymeric solids B. Crystalline solids C. Glassy solids
15	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
16	Zirconia is classified as:	A. Ceramic solid B. lonic compound C. Metal D. Either A or B E. Either B or C
17	220 cm ³ of water, when subjected to a stress of 100 atmosphere, becomes 219 cm ³ . Find the bulk modulus of water	A. 100 N m ⁻³ B. 100 N m ⁻² C. 22000 N m ⁻³ D. 22000 N m ⁻²
18	A cable breaks if stretched by moe than 2mm, it is cut into two equal parts. How much either [art can be stretched without breaking?	A. 25 m B. 1 mm C. 2 mm D. 0.5 m
19	The maximum stress that a body can tolerate is called	A. UTS B. Permanent stress C. Elastic strength D. Plastic stress
20	Semiconductor materials have the conductivities generally lies between	A. $10 < sup > -5 < / sup > to 10 < sup > 6 < / sup > (\Omega m) < sup > -1 < / sup > B. 10 < sup > -6 < / sup > to 10 < sup > 4 < / sup > (\Omega m) < sup > -1 < / sup > C. 10 < sup > 7 < / sup > to 10 < sup > 7 < / sup > to 10 < sup > 7 < / sup > to 10 < sup > 1 < / sup > to 10 < sup > 1 < / sup > to 10 < sup > 1 < / sup > to 10 < sup > 1 < / sup > to 10 < sup > 1 < / sup > to 10 < sup > 1 < / sup > to 10 < sup > 1 < / sup > to 10 < sup > 1 < / sup > to 10 < sup > 1 < / sup > to 10 < sup > 1 < / sup > to 10 < sup > 1 < / sup > to 10 < sup > 1 < / sup > to 10 < sup > 1 < / sup > to 10 < sup > 1 < / sup > to 10 < sup > 1 < / sup > to 10 < sup > 1 < / sup > to 10 < sup > 1 < / sup > to 10 < sup > 1 < / sup > to 10 < sup > 1 < / sup > to 10 < sup > 1 < / sup > to 10 < sup > 1 < / sup > to 10 < sup > 1 < / sup > to 10 < sup > 1 < / sup > to 10 < sup > 1 < / sup > to 10 < sup > 1 < sup > to 10 < sup > 1 < sup > to 10 < sup > 1 < sup > to 10 < sup > 1 < sup > to sup >$