

MDCAT Physics Chapter 13 Deformation of Solids MCQ's Test

Sr	Questions	Answers Choice
1	The molecules or ions in a crystalline solid are	A. static B. not static C. randomly moving D. all of them
2	Young's modulus for tungsten is	A. 90 B. 190 C. 390 D. 590
3	1 st superconductor was discovered in year	A. 1890 B. 1930 C. 1895 D. 1911
4	Which of the following can become a good permanent magnet?	A. iron B. steel C. both of them D. none of them
5	When a crystal is subjected to stress, it tends to break or fracture along definite direction which is characteristic of a simple. This is called	A. Cleavage B. Allotropy C. Isotropy D. None of these
6	A steel wire 12 mm in diameter is fastened to a log and then pulled by a tractor. The length of wire 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
7	A rubber cord 100 cm long is elongated 1 cm by a stretching force of 0.2 N. The cross-sectional area of the cord is 0.04 cm ² . Find the Young's modulus for that rubber.	A. 0.5 N cm ⁻² B. 0.05 N cm ⁻² C. 50 N cm ⁻² D. 500 N cm ⁻²
8	If stress is increased beyond the elastic limit and change in solid is permanent this behaviour is called	A. Elasticity B. Plasticity C. Conductivity D. Insulator
9	The modulus of elasticity can be written as	A. stress x strain B. strain/stress C. 1/2 x stress x strain D. stress/strain
10	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
11	The Hook's law defines	A. Modulus of elasticity B. Stress C. Strain D. Elastic limit
12	Steel is more elastic than rubber because	A. It is a metal B. Its density is higher C. Ratio of stress to strain is more D. Ratio of stress to strain is less
13	Force applied on a unit area of a body to produce any change in its shape, Volume or length of a body is called:	A. Strain B. Stress C. Young's modulus D. Bulk modulus E. Either (C) or (D)
14	Identify practical use of superconductor	A. MRI B. Super computer C. Magnetic levitation train D. All above
15	On heating, it becomes a very viscous liquid at almost	A. 500 C B. 800 C C. 900 C D. 1000 C

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- 16 Which one of the material is not polymer
- A. Glass
B. Natural rubber
C. Polyethene
D. Polystyrene
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- 17 The unit cell of the shape of match box is called
- A. Cubic
B. Tetragonal
C. Orthorhombic
D. Rhomboheral
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- 18 Shear modulus for copper is
- A. 20
B. 27
C. 44
D. 43
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- 19 Every crystalline solid has
- A. definite melting point
B. different melting points
C. may or may not be definite
D. none of them
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- 20 Those solid which breaks soon after crossing the elastic limit are called
- A. Amorphous
B. Glassy solid
C. Crystalline solid
D. Brittle
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