

MDCAT Physics Chapter 13 Deformation of Solids MCQ's Test

Sr	Questions	Answers Choice
1	Crystalline solids are in the form of:	A. Metals B. Ionic compounds C. Ceramics D. Both A and B E. All of these
2	Polymers have chemically combinations with	A. Carbon; B. Nitrogen; C. Hydrogen; D. All of them
3	The ratio of kinetic energy to potential energy for solids is	
4	Examples of brittle substances are	A. Glass B. Copper C. Lead D. None of these
5	The fractional change in volume per unit increase in pressure is called:	A. Bulk modulus B. Compressibility C. Pressure coefficient D. Volume coefficient
6	If the tensile force is suddenly removed from a wire then its temperature will	A. Decrease B. Increase C. Become zero D. Remain constant
7	Bulk modulus for aluminium is	A. 40 B. 70 C. 75 D. 95
8	N-type crystal is	A. Neutral B. Positively charged C. Negative charged D. None of these
9	The conduction of electrons takes place and conduct electric current through solids is a	A. Energy band B. Conduction band C. Valence band D. Completely filled band
10	Steel is preferred for making springs over copper. Why?	A. Steel is cheaper B. Young's modulus of steel is more than that of copper C. Young's modulus of copper is more than that of steel D. Steel is less likely to be oxidized.
11	The atom or molecules in crystalline solids are held together by:	A. Cohesive force B. Adhesive force C. Gravitational force D. Magnetic forces
12	Those solid which breaks soon after crossing the elastic limit are called	A. Amorphous B. Glassy solid C. Crystalline solid D. Brittle
13	The electrons in the outermost shell of an atom are called	A. Valence electrons B. Tightly bound electrons C. Free electrons D. None of these
14	The SI unit of stress is same as that of.	A. Momentum B. Pressure C. Force D. Length
15	A unit set is the smallest basic structure which is:	A. One dimensional B. Two dimensional C. Three dimensional D. Four dimensional

E. None of these

16 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**

17 Elastic deformation of a material is the deformation which is

- A. Permanent
- B. Temporary**
- C. Some what permanent
- D. None of these

18 With the rise of temperature the amplitude of atoms

- A. Slow down
- B. Fixed
- C. Increases**
- D. None of these

19 The arrangement of molecules or atoms in a crystalline solid can be studied by using:

- A. Chemical methods
- B. Neutrons
- C. X-ray techniques**
- D. Copper atoms
- E. Both A and B

20 A cable breaks if stretched by more than 2 mm. It is cut into two equal parts. How much either part can be stretched without breaking?

- A. 0.25 m
- B. 0.5 m
- C. 1 mm**
- D. 2 mm