

## MDCAT Physics Chapter 13 Deformation of Solids MCQ's Test

Sr	Questions	Answers Choice
1	In terms of energy bands, semiconductors are those materials which at room temperature have conduction band	A. Partially filled B. Full filled C. Slightly filled D. None of these
2	What is the bulk modulus of a material?	A. strain/volumetric strain B. volumetric stress/strain C. stress/volumetric strain D. volumetric stress/volumetric strain
3	The electrons in the outermost shell are called	A. Super electrons B. Valance electrons C. Full valance D. Upper deep up
4	Which of the quantity is dimensionless:	A. Strain B. Stress C. Modulus of elasticity D. Work E. Entropy
5	The ability of anybody to return, to its original shape is called	A. Elasticity B. Elastic force C. Stress D. Strain
6	Young's modulus for steel is	A. 100 B. 200 C. 300 D. 400
7	S.I unit of stress is	A. N/m B. N m C. Nm <sup>-2</sup> D. newton
8	_____ is a pattern which has got one more atom at the centre of a simple cube.	A. Simple cube B. Face centered cube C. Body centered cube D. None of these
9	When a large number of atoms are brought close to one another to form a solid, each energy level of an isolated atom splits into sub-levels, called	A. energy bands B. energy shells C. states D. all of them
10	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
11	N-type crystal is	A. Neutral B. Positively charged C. Negative charged D. None of these
12	The band above the valence band is called	A. high energy band B. conduction band C. empty band D. none of them
13	Shear modulus for steel is	A. 20 B. 84 C. 95 D. 202
14	Acceptor impurities donate	A. Holes B. Electrons C. Both Electrons and Holes

D. None of them

15  $\text{Nm}^{-2}$  is approximately called:

- A. Telsa
- B. Weber
- C. Pascal
- D. Watt
- E. Guass

16 In a semi-conductor material, the total current is

- A. only the +ve current
- B. only the electronic current
- C. sum of +ve and electronic current
- D. all of them

17 Insulators are those material in which energy gap is

- A. very large (several eV)
- B. very narrow ( $\approx 1\text{eV}$ )
- C. either of them
- D. none of them

18 According to the Hooke's law the force required to change the length of a wire by '1' is proportional to:

- A.  $1^{2}$
- B.  $1^{1}$
- C. 1

19 Bulk modulus is involved when the deformation is:

- A. One dimensional
- B. Two dimensional
- C. Three dimensional
- D. Any of these
- E. None of these

20 The ability of body to return to its original shape is called

- A. Elasticity
- B. Stress
- C. Strain
- D. Shear