

## Multiple Choice Questions' Bank:

1. Basic source of magnetism \_\_\_\_\_.



## 2. Units for magnetic flux density

- (a) Wb / m<sup>2</sup>      (b) Wb / A.m      (c) A / m      (d) Tesla / m

3. Magnetic permeability has units as

- (a) Wb / m<sup>2</sup>      (b) Wb / A.m      (c) A / m      (d) Tesla / m

4. Magnetic permeability has units as



5. Magnetic field strength's units are

- (a) Wb / m<sup>2</sup>      (b) Wb / A.m      (c) A / m      (d) Tesla / m

## 6. Example for dia-magnetic materials

- (a) super conductors (b) alkali metals (c) transition metals (d) Ferrites

## 7. Example for para-magnetic materials

- (a) super conductors (b) alkali metals (c) transition metals (d) Ferrites

## 8. Example for ferro-magnetic materials

- (a) super conductors (b) alkali metals (c) transition metals (d) Ferrites

## 9. Example for anti-ferro-magnetic materials

- (a) salts of transition elements      (b) rare earth elements      (c) transition metals      (d) Ferrites

## 10. Example for ferri-magnetic materials

- (a) salts of transition elements      (b) rare earth elements      (c) transition metals      (d) Ferrites

11. Magnetic susceptibility para-magnetic materials is

- (a)  $+10^{-5}$       (b)  $-10^{-5}$       (c)  $10^5$       (d)  $10^{-5}$  to  $10^{-2}$

12. Magnetic susceptibility dia--magnetic materials is

- (a)  $+10^{-5}$       (b)  $-10^{-5}$       (c)  $10^5$       (d)  $10^{-5}$  to  $10^{-2}$

13. Magnetic susceptibility ferro-magnetic materials is

- (a)  $+10^{-5}$       (b)  $-10^{-5}$       (c)  $10^5$       (d)  $10^{-5}$  to  $10^{-2}$

14. Typical size of magnetic domains \_\_\_\_\_ (mm).

- (a) 1-10      (b) 0.1-1      (c) 0.05      (d) 0.001

15. Typical thickness of Bloch walls \_\_\_\_\_ (nm).

- (a) 0.1-1      (b) 1-10      (c) 10-50      (d) 100

16. Example for soft magnet

- (a) 45 Permalloy      (b) CrO<sub>2</sub>      (c) Fe-Pd      (d) Alnico

17. Example for hard magnet

- (a) 45 Permalloy      (b) CrO<sub>2</sub>      (c) Fe-Pd      (d) Alnico

18. Example for magnetic material used in data storage devices

- (a) 45 Permalloy      (b) CrO<sub>2</sub>      (c) Cunife      (d) Alnico

Answers:

1. b
2. a
3. b
4. d
5. c
6. a
7. b
8. c
9. a
10. d
11. d

- 12. b
- 13. c
- 14. c
- 15. d
- 16. a
- 17. d
- 18. b