

Physics ICS Part 2 Online MCQ's Test

Sr	Questions	Answers Choice
1	The combined effect of resistance and reactance is known as.	A. Inductance B. Conductance C. Resistance D. Impedance
2	A substance having the negative temperature coefficient of resistivity out of the following is.	A. Carbon B. Iron C. Tungsten D. Gold
3	Power dissipated in a pure inductor is.	A. Large B. Small C. Infinite D. Zero
4	Magnetic flux density at a point due to current carrying coil is determined by	A. Ampere's law B. Faraday's law C. Lenz's law D. Gauss's law
5	In Helium Neon laser, discharge tube is filled with Neon gas.	A. 10% B. 15% C. 85% D. 90%
6	Bremsstrahlung radiation are examples of	A. Atomic spectra B. Molecular spectra C. Continuous spectra D. Discrete spectra
7	An ammeter is an electrical instrument which is used to measure.	A. Voltage B. Current C. Resistance D. None
8	Earth orbital speed is.	A. 10 km/s B. 20 km/s C. 30 km/s D. 40 km/s
9	Nuclear fission chain reaction is controlled by using.	A. Cadmium rods B. Iron rods C. Platinum rods D. Steel rods
10	The main reason for world wide use of A.C is because:	A. It is very high power B. It can be transmitted over long distance C. It is cheaper to use D. All of above
11	Power dissipation in A.C circuit is expressed as:	A. $P = I_{\text{rms}} \times V_{\text{rms}} \sin\theta$ B. $I_{\text{rms}} V_{\text{rms}} \cos\theta$ C. $I_{\text{rms}} \times V_{\text{rms}} \cos\theta$ D. $I_{\text{rms}} \times V_{\text{rms}} \sin 2\theta$
12	Net charge enclosed by Gaussian surface is:	A. zero B. maximum C. depend on intensity D. none of all
13	The mass of beta particle is equal to mass of.	A. Protons B. Electrons C. Neutrons D. Boron
14	Target material used in x-rays tube have following properties.	A. High atomic number and high melting point B. High atomic number and low melting point C. Low atomic number and low melting point

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D. High atomic number only

15 James chadwick discovered:

- A. Proton
- B. Positron
- C. Neutron
- D. Electron

16 Which one of the following resistance is used to convert a Galvanometer into an ammeter.

- A. High resistance
- B. Low resistance in series with galvanometer
- C. Shunt
- D. High resistance in series with galvanometer

17 Which one of the following paved the way for modern physics

- A. Newtonian mechanics
- B. Theory of relativity
- C. Quantum theory
- D. All of above

18 The phase angle of a series RLC circuit at resonant frequency is

- A. $1/2$
- B. π
- C. Zero
- D. $\pi/4$

19 Pair production occurs only when energy of photon is at least equal in:

- A. 1.02keV
- B. 1.02 eV
- C. 1.02 MeV
- D. 1.02 GeV

20 split rings are used in

- A. A.C. generator
- B. A.C. motor
- C. Transformer
- D. D.C. motor