

## Physics ICS Part 2 Online MCQ's Test

Sr	Questions	Answers Choice
1	The resistivity of two wires is $\rho_1$ and $\rho_2$ which are connected in series. If their dimensions are same then the equivalent resistivity of the combination will be:	<p>A. <math>\rho_1 + \rho_2</math></p> <p>B. <math>\frac{\rho_1 + \rho_2}{2}</math></p> <p>C. <math>\frac{\rho_1 \rho_2}{\rho_1 + \rho_2}</math></p> <p>D. <math>\frac{\rho_1 \rho_2}{2}</math></p>
2	Electric current produces magnetic field, was suggested by.	<p>A. Faraday</p> <p>B. Oersted</p> <p>C. Henry</p> <p>D. Lenz</p>
3	For Paschen series, the value of 'n' starts from	<p>A. 2</p> <p>B. 4</p> <p>C. 6</p> <p>D. 8</p>
4	A step up transformer is used 120 V line to provide 240 V. If primary coil has 100 turns the number of turns is secondary is.	<p>A. 50</p> <p>B. 100</p> <p>C. 150</p> <p>D. 200</p>
5	The sensor of light is.	<p>A. Transistor</p> <p>B. LED</p> <p>C. Diode</p> <p>D. Light dependent resistance</p>
6	If there is no fourth band, tolerance is shows as	<p>D. 10%</p>
7	Magnetic induction can be measured in units of.	<p>A. Tesla</p> <p>B. Gauss</p> <p>C. Weber/m<sup>2</sup></p> <p>D. All of the above</p>
8	In according with Bohr's theory the K.E of the electron is equal to:	<p>A. <math>\frac{ke^2}{2r}</math></p> <p>B. <math>\frac{Ze^2}{r}</math></p> <p>C. <math>\frac{Ze^2}{r^2}</math></p> <p>D. <math>\frac{Ze^2}{2r^2}</math></p>
9	The expression $P = VI$ hold only when current and voltage are.	<p>A. In phase</p> <p>B. Out of phase</p> <p>C. At right angle to each other</p> <p>D. At angle of <math>120^\circ</math></p>
10	The magnetic flux will be max, For an angle of:	<p>A. <math>0^\circ</math></p> <p>B. <math>60^\circ</math></p> <p>C. <math>90^\circ</math></p> <p>D. <math>120^\circ</math></p>

D.  $180^\circ$

11	The binding energy per nucleon is maximum for	A. Helium B. Iron C. Potassium D. Radium
12	The number of electrons in one coulomb charge is equal to	A. $6.2 \times 10^{18}$ electrons B. Zero electrons C. $1.6 \times 10^{-22}$ electrons D. $6.2 \times 10^{21}$ electrons
13	Energy stored in an inductor is:	A. $\frac{1}{2}L^2$ B. $\frac{1}{2}L^2$ C. $\frac{1}{2}LI^2$ D. $\frac{1}{2}LI$
14	When nitrogen is bombarded by alpha particles nitrogen nucleus changes into	A. Oxygen B. Carbon C. Barium D. Helium
15	The device which are required to convert various physical quantities into electric voltage are called.	A. Filters B. Rectifiers C. Amplifiers D. Sensors
16	For rectification we use.	A. Transformer B. Diode C. Choke D. Generator
17	When a charge is projected perpendicular to a uniform magnetic field, its path is	A. Spiral B. Helix C. Ellipse D. Circular
18	Transistor was invented by:	A. Bardeen B. Micheal faraday C. Lenz D. Newton
19	For computation of electric flux, the surface area should be.	A. Parallel B. Flat C. Curved D. Spherical
20	K $\alpha$ -X-rays are produced due to transition of electron from.	A. K to L shell B. L to K shell C. M to K shell D. M to L shell