

## Physics FSC Part 2 Online MCQ's Test

Sr	Questions	Answers Choice
1	$e/m =$	A. $v/B r$ B. $B r/V$ C. $V B/r$ D. $V r/B$
2	The vector sum of electric force and magnetic force is called:	A. Deflecting force B. Lorentz force C. Newton force D. Faraday's force
3	The magnetic field inside solenoid is given:	A. $\mu_{\text{sub}}^{\circ} \cdot n^2$ B. $\mu_{\text{sub}}^{\circ} \cdot n/1^2$ C. $\mu_{\text{sub}}^{\circ} \cdot n/1^2$ D. $\mu_{\text{sub}}^{\circ} \cdot l/n$
4	The field is strong and uniform.	A. Inside the solenoid B. Surrounding of solenoid externally C. Perpendicular to solenoid D. All of above
5	$\mu_0$ (Ampere's constant) has value.	A. $4\pi \times 10^{-7} \text{ Wb A}^{-1}$ B. $4\pi \times 10^{-17} \text{ Wb m}^2$ C. $4\pi \times 10^{-7} \text{ Wb A}^{-1}$ D. $4\pi \times 10^{-27} \text{ Wb/m}^2$
6	The unit of Magnetic flux is called.	A. weber B. weber/m <sup>2</sup> C. NM <sup>-1</sup> A <sup>-1</sup> D. None of above
7	The conductor experience force, placed in magnetic above:	A. Move towards weaker part of field B. Move towards stronger part of field C. Remains at rest D. Move upwards in space
8	1 tesla =	A. 1 MAm <sup>-1</sup> B. 1NA <sup>-1</sup> m C. $1 \text{NA}^{-1} \text{m}^2$ D. None of above
9	The unit of magnetic induction is:	A. Tesla; B. Weber C. Weber metre D. NAm <sup>-1</sup>
10	The unit of resistance is:	A. $\Omega$ B. $\Omega m$ C. $\Omega^{-1} m^{-1}$ D. $\Omega m^{-1}$
11	Semiconductor diodes are called:	A. Ohmic B. non ohmic C. Both a & b D. none of above
12	The fraction change in resistance per Kelvin is known as:	A. Temperature coefficient of Resistance B. Coefficient of voltage of change C. Thermal expansion D. All of the above;
13	The color code of "Green"	A. 8 B. 3 C. 5 D. 7
14	Electric power:	A. $VxI$ B. $V^2 x I$ C. $V/I$ D. $V/I^2$

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- 15      The algebraic sum of potential change in a closed circuit is zero.
- A. Kirchhoff's 1st rule  
B. Kirchhoff 2<sup>nd</sup> rule  
C. Kirchhoff's 3<sup>rd</sup> rule  
D. Kirchhoff 4<sup>th</sup> rule  
&nbsp;rule
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- 16      The Kirchhoff 1<sup>st</sup> rule is manifestation of:
- A. Law of conservation of mass  
B. Law of Conservation of charge  
C. Law of conservation of energy  
D. None of above
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- 17      The value of maximum output power is?
- A. E/4R  
B. E<sup>2</sup>/4R  
C. E/4R<sup>2</sup>  
D. Non of above
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