

## Physics Fsc Part 1 Chapter 9 Online Test

Sr	Questions	Answers Choice
1	A positive charge is placed at the center of sphere of radius $r$ , then the electric flux depends upon	<p>A. The radius of the sphere</p> <p>B. Quantity of charge</p> <p>C. The intensity of the electric field</p> <p>D. All of the above</p>
2	In wheatstone bridge all the four arms have equal resistance $R$ . If the resistance of galvanometer arm is also $R$ the equivalent resistance of the combination	<p>A. <math>R</math></p> <p>B. <math>R/4</math></p> <p>C. <math>R/2</math></p> <p>D. <math>2R</math></p>
3	Which of the following has a positive temperature coefficient.	<p>A. Iron</p> <p>B. Carbon</p> <p>C. Silicon</p> <p>D. Germanium</p>
4	When a dielectric material is placed in an electric field it	<p>A. Conducts</p> <p>B. Polarizes</p> <p>C. Magnetizes</p> <p>D. undergoes electrolysis</p>
5	Electric flux is a	<p>A. Scalar Quantity</p> <p>B. Vector Quantity</p> <p>C. Base Quantity</p> <p>D. None</p>
6	Algebraic sum of current meeting at a point is zero is a statement of.	<p>A. Kirchhoff's 1st law</p> <p>B. Faraday's law</p> <p>C. Ampere's law</p> <p>D. None</p>
7	Which electrical quantity has the same units as electromotive force.	<p>A. Current</p> <p>B. Charge</p> <p>C. Potential Difference</p> <p>D. Power</p>
8	If we move away from a charge, the magnitude of electric intensity will	<p>A. Decrease</p> <p>B. Increase</p> <p>C. Zero</p> <p>D. Remain Constant</p>
9	Neutral zone in electric field of two similar charge is region where.	<p>A. Both positive and negative charges are present</p> <p>B. Equal quantity of both positive and negative charges are present</p> <p>C. An electric dipole exists</p> <p>D. No electric field line passes</p>
10	The electric resistance of a metal	<p>A. Increase with the increase of temperature</p> <p>B. Decrease with increase of temperature</p> <p>C. Independent of temperature</p> <p>D. Convert Mechanical energy into heat energy</p>
11	Two point charges A and B are separated by 10 m. If the distance between them is reduced to 5 m. the force exerted on each.	<p>A. Decrease to half its original value</p> <p>B. Increase to twice the original value</p> <p>C. Increase four times to its original value</p> <p>D. Decreases to one quarter of its original value</p>
12	If a resistor is traversed in the direction of current, the potential change is.	<p>A. Negative</p> <p>B. Positive</p> <p>C. Zero</p> <p>D. Infinite</p>
		A. Material

13	Specific resistanc of a conductor depends upon is.	<p>B. <math>\text{Length}</math></p> <p>C. <math>\text{Area}</math></p> <p>E. <math>\text{All}</math></p>
14	Gaussian surface is	<p>A. <math>\text{Imaginary}</math></p> <p>B. <math>\text{Closed \&amp; \&amp;nbsp;}</math></p> <p>C. <math>\text{Both a and b}</math></p> <p>D. <math>\text{Real}</math></p>
15	Value of dielectric consgtant $\epsilon_r$ for water is	<p>A. <math>25</math></p> <p>B. <math>78.5</math></p> <p>C. <math>2.1</math></p> <p>D. <math>3.40</math></p>
16	An electric field can deflect.	<p>A. <math>\text{Charge dparticles}</math></p> <p>B. <math>\text{Neutrons}</math></p> <p>C. <math>\text{X-rays}</math></p> <p>D. <math>\text{Beta Rays}</math></p>
17	The Kirchhoff's 2nd rule is the manifestation of law of conservation of.	<p>A. <math>\text{Energy}</math></p> <p>B. <math>\text{Mass}</math></p> <p>C. <math>\text{Momentum}</math></p> <p>D. <math>\text{Charge}</math></p>
18	Ohm's law can be expressed as.	<p>A. <math>I = VR</math></p> <p>B. <math>R = IV</math></p> <p>C. <math>V = RI</math></p> <p>D. <math>V = I/R</math></p>
19	Wheatstone bridge is used to measrue the unknown.	<p>A. <math>\text{Resistance}</math></p> <p>B. <math>\text{Current}</math></p> <p>C. <math>\text{Voltage}</math></p> <p>D. <math>\text{None}</math></p>
20	Electric lines of force are.	<p>A. <math>\text{Real}</math></p> <p>B. <math>\text{Imaginary}</math></p> <p>C. <math>\text{Complex}</math></p> <p>D. <math>\text{None of these}</math></p>