

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

13 Specific resistanc of a conductor depends upon is.
B. *Length*
C. *Area*
E. *All*

14 Gaussian surface is
A. *Imaginary*
B. *Closed*
C. *Both a and b*
D. *Real*

15 Value of dielectric consgtant ϵ_r for water is
A. *25*
B. *78.5*
C. *2.1*
D. *3.40*

16 An electric field can deflect.
A. *Charge dparticles*
B. *Neutrons*
C. *X-rays*
D. *Beta Rays*

17 The Kirchhoff's 2nd rule is the manifestation of law of conservation of.
A. *Energy*
B. *Mass*
C. *Momentum*
D. *Charge*

18 Ohm's law can be expressed as.
A. *$I = VR$*
B. *$R = IV$*
C. *$V = RI$*
D. *$V = I/R$*

19 Wheatstone bridge is used to measrue the unknown.
A. *Resistance*
B. *Current*
C. *Voltage*
D. *None*

20 Electric lines of force are.
A. *Real*
B. *Imaginary*
C. *Complex*
D. *None of these*