

Physics ICS Part 2 Chapter 14 Online MCQ's Test

C _r	Ougations	Anguara Chaica
Sr	Questions	Answers Choice
1	The effective way to increase the sensitivity of moving coil galvanometer is.	A. Increase the area of coil B. Increase the number of turn C. Increase the magnetic field D. Increase the value of constant C
2	Magnetic lines of force are.	A. Imaginary B. Real C. Perpendicular D. In phase with electric lines of force
3	An AVO meter can also be called as.	A. Digital multimeter B. Digital voltmeter C. Digital ammeter D. Digital ohm meter
4	Lorentz force means the force acting on a particle, which is	A. Magnetic force only B. Electric force only C. Sum of electric and magnetic force D. None of these
5	Galvanometer is sensitive when C/BAN is	A. zero B. Large C. small D. Negative
6	The SI unit of magnetic permeability is.	A. WbA-1m-1 B. Wbm-2 C. WbmA-1 D. WbAm-1
7	The magnetic field inside solenoid is given:	A. μ _∘ nl ² B. μ _∘ nl C. μ _∘ n/1 ² D. μ _∘ l/n
8	A dot represents the direction of magnetic field.	A. Out of page B. Into the page C. Tangent to page D. Parallels to page
9	A moving charge is surrounded by:	A. 2 Fields B. 3 Fields C. 4 Fields D. None of these
10	A sensitive galvanometer is	A. Unstable B. Stable C. Moderate D. Both B and C
11	The SI unit of magnetic induction 'B' Tesla is equal to.	A. NA-1m-1 B. Nam-1 C. NA-1 m D. Na2m-1
12	Ampere's law is applicable to:	A. Circular path B. Rectangular path C. To any closed path D. Nonwe of these
13	The magnetic flux will be max, For an angle of:	A. 0 ° B. 60 ° C. 90 ° D. 180 °
		A. A helix

14	When charge particle enter perpendicular to magnetic field, the path followed by it is:	B. A circle C. Straight line D. Ellipes
15	For accurate measurement of current through a circuit, the resistance of ammeter should be	A. Very small B. Very high C. Neither small nor high D. None of the above
16	The SI unit of magnetic induction Tesla is equal to	A. N-1 Am B. NA m2 C. NA-1n2 D. NA-1m-1
17	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
18	In order to increase sensitivity of galvanometer the value of C may be	A. Increase B. Decrease C. Neither increase nor decrease D. Remain same
19	μ _∘ (Ampere's constant) has value.	A. 4πx10 ⁻⁷ WbA ⁻¹ m ⁻¹ B. 4πx10 ⁻¹⁷ Wbm ² C. 4πx10 ⁷ WbA ⁻¹ D. 4πx10-27 Wb/m ²
20	In CRO, the output waveform of time base generator is	A. Circular B. Square C. Sinusoidal D. Saw-toothed
21	Force on a charged particle is zero when projected at angle with magnetic field.	A. 0 ^o B. 90 ^o C. 180 ^o D. 270 ^o
22	In order to measure potential difference voltmeter is always connected in.	A. Series B. Parallel C. Both a and b D. Neither in series nor in parallel
23	The force on a charge particle moving parallel to magnetic field is:	A. Maximum B. Minimum C. Zero D. None of these
24	The SI unit of E is NC-1 and that of B is Na-1 m-1 then the unit of E/B is.	A. ms-2 B. ms
	THE STUINT OF E IS NO-1 and that OF B IS Na-1 HET then the unit OF E/B is.	C. ms ⁻¹ D. m-1s-1
25	The vector sum of electric force and magnetic force is called:	C. ms ⁻¹
25 26		C. ms ⁻¹ D. m-1s-1 A. Deflecting force B. Lorentz force C. Newton force
	The vector sum of electric force and magnetic force is called:	C. ms ⁻¹ D. m-1s-1 A. Deflecting force B. Lorentz force C. Newton force D. Faraday's force A. To accelerate electrons only B. To focus the electrons only C. To control the brightness of spot on screen
26	The vector sum of electric force and magnetic force is called: The function of three anodes a C.R.O is An electron enters the magnetic field at right angle from left, B is into paper. The	C. ms ⁻¹ D. m-1s-1 A. Deflecting force B. Lorentz force C. Newton force D. Faraday's force A. To accelerate electrons only B. To focus the electrons only C. To control the brightness of spot on screen D. To accelerate and focus the electrons A. upward B. To ward right C. Down ward
26 27	The vector sum of electric force and magnetic force is called: The function of three anodes a C.R.O is An electron enters the magnetic field at right angle from left, B is into paper. The electron will be deflected.	C. ms ⁻¹ D. m-1s-1 A. Deflecting force B. Lorentz force C. Newton force D. Faraday's force A. To accelerate electrons only B. To focus the electrons only C. To control the brightness of spot on screen D. To accelerate and focus the electrons A. upward B. To ward right C. Down ward D. Toward left A. Remain constant B. Increases C. Decreases
26 27 28	The vector sum of electric force and magnetic force is called: The function of three anodes a C.R.O is An electron enters the magnetic field at right angle from left, B is into paper. The electron will be deflected. A charged particle enters in a strong magnetic field its K.E.	C. ms ⁻¹ D. m-1s-1 A. Deflecting force B. Lorentz force C. Newton force D. Faraday's force A. To accelerate electrons only B. To focus the electrons only C. To control the brightness of spot on screen D. To accelerate and focus the electrons A. upward B. To ward right C. Down ward D. Toward left A. Remain constant B. Increases C. Decreases D. Increases then decreases A. Tesla B. Weber C. Weber m-2

	50.	D. Toward left
32	e/m=	A. v/Br B. Br/V C. VB/r D. Vr/B
33	The SI Unit of magnetic induction is.	A. Weber B. Tesla C. Gauss D. Newton
34	Torque is produced in a current carrying coil when it is placed in a	A. Magnetic field B. Electric field C. Gravitational field D. Nuclear field
35	Current passing through the coil of galvanometer	A. CO/BAN B. CoN/BA C. NAB/CO D. AN/BCO
36	An electron moves at 2 x 10^2 m/sec perpendicular to magnetic field of 2T what is the magnitude of magnetic force:	A. 1 x 10 ⁻⁶ N B. 6.4 x 10 ⁻¹⁷ N C. 3.6 x 10 ⁻²⁴ N D. 4 x 10 ⁶ N
37	Question Image	D. None of the above
38	If the length of solenoid is doubled but N same, B inside the solenoid becomes.	A. Half B. Doubled C. One fourth D. Four times
39	is correct relation.	A. IT = 10 ⁻⁴ G B. IT = 10 ⁴ G C. IT = 10 ² G D. IT = 10 ⁻² G
40	The torque in the coil can be increased by increasing:	A. No. of turns B. Current and magnetic field C. Area of coil D. All of the above
41	The Weber is unit of measure of:	A. Conductance B. Electric current C. Magnitic flux D. Electric flux
42	The sensitivity of galvanometer is given by	A. CAWB B. C/BAN C. BAWC D. BWCA
43	For a current carrying solenoid the term 'n' has unit as.	A. No unit B. m ⁻¹ C. m ⁻² D. m-3
44	One weber is equal to:	A. N.A ² /m B. N.m ² /A C. N.A/m D. N.m/A
45	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
46	A charged particle having charge 'q' is moving at right angle to magnetic field. The quantity which varies is.	A. Speed B. Kinetic energy C. Path of motion D. angular velocity
47	The magnetic field is uniform and stronger	A. Outside the solenoid B. Inside the solenoid C. At the central part of the solenoid D. None of these
48	The dimensions of magnetic flux are	A. M ¹ L ^{- 2} T ¹ A ¹ B. MLT ⁻² A ⁻¹ C. ML ² T ² A ⁻¹ D. ML ² T ^{- 2} - 3- 4- 3- 3- 3- 3- 3- 3- 4- 5- 5- 5- 5- 5- 5- 5- 5- 5- 5- 5 </td

49	A galvanometer is an electrical instrument used to	A. Measure resistance B. Measure voltage C. Detect passage of current D. None of these
50	If an electron is prijected in a magnetic field with velocity V, it will experience a force	
51	If a charge is at rest in a magnetic field then force on charge is	A. Zero B. Double C. One fourth D. Four times
52	A photon while passing thorugh a magnetic field are deflected towards:	A. North pole B. South pole C. Are ionized D. None of these
53	The unit of magnetic induction is:	A. Tesla B. Weber C. Weber metre D. NAm ⁻¹
54	When Ohm meter gives full scale deflection it indicates.	A. Zero resistance B. Infinite resistance C. Small resistance D. Very High resistance
55	Two parallel wires carrying currents in the opposite direction.	A. Repel each other B. Attract each other C. Have no effect upon each other D. They cancel out their individual magnetic fields.
56	If a low resistance is connected parallel to a galvanometer then galvanometer is converted.	A. Ammeter B. Voltammeter C. Ohmmeter D. Multimeter
57	Which one has the least resistance.	A. Galvanometer B. Ammeter C. Ohm meter D. Volta meter
58	A soft iron cylinder is placed inside coil galvanometer to:	A. Make field circular and strong B. Make field radial and weak C. Make field radial and strong D. All of above
59	Magnetic flux density is measured in	A. Weber B. Weber/m2 C. Tesla -m D. Gauss
60	In current carrying long solenoid the magnetic field produced does note depend upon	A. The radius of solenoid B. Number of turns per unit length C. Current flowing through solenoid D. All of above
61	A device used for detection of current is called.	A. Inductor B. Voltmeter C. Capacitor D. Galvanometer
62	When a charge is projected perpendicular to a uniform magnetic field, tis path is	A. Spiral B. Helix C. Ellipse D. Circular
63	The sensitivity of Galvanometer can be increased by:	A. Increasing C/BAN factor B. Decreasing C/BAN factor C. Increasing angle θ D. All of above
64	Magnetism is related to:	A. Stationary charges B. Moving charges C. Stationary & Moving charges D. Law of motion
65	The value of e/m is smallest for	A. Proton B. Electron C. Beta particle D. Positron
66	A battery is used in	A. ohmmeter B. Ammeter C. Galvanometer D. Voltemeter
		A. High resistance

A. Measure resistance

67	Which one of the following resistance is used to convert a Galvanometer into an ammeter.	B. Low resistance in series with galvanometer C. Shunt D. High resistance in series with galvanometer
68	A voltmeter is always connected in	A. Parallel B. Series C. Perpendicular D. Straight line
69	The name of the scientist who noted that a compass needle was deflected when placed near the current carrying conductor	A. Henry B. Faraday C. Coloumb D. Oersted
70	To convert a galvanometer into a volt meter a high resistance is connected.	A. In series B. In parallel C. In perpendicular D. Along tangent
71	The SI unit of flux density is.	A. NA-1 m2 B. NA-1 m-1 C. NAm-1 D. NA-1 m
72	A Current flowing towards the reader is denoted by.	A. Cross B. a bracket C. A dot D. Positive sign
73	1 tesla =	A. 1 MAm ⁻¹ B. 1NA ⁻¹ m C. 1NA ⁻¹ m ⁻¹ D. None of above
74	The unit of permiability of free space is:	A. T.m/A B. T.m ² /A C. T.m/A ² D. None of these
75	To convert a galvanometer into an ammeter, we connect with it a	A. Shunt resistance B. Low value parallel C. Low value by pass resistor D. All of above
76	Grid in cathode ray oscilloscope controls.	A. Number of electron B. Temperature of filament C. Frequency of electron D. Energy of electrons
77	The field is strong and uniform.	A. Inside the solenoid B. Surrounding of solenoid externally C. Perpendicular to solenoid D. All of above
78	CRO works by deflecting the beam of electron as they pass through	A. Uniform magnetic field B. Uniform electric field between two sets of parallel plates C. Non-uniform magnetic field D. None of these
79	Shunt resistance is	A. Low resistance B. Zero resistance C. High resistance D. Impedance
80	The sum of electric and magnetic force is called.	A. Maxwell force B. Lorentz force C. Newton's force D. Centripetal force
81	The magnetic force is simply a	A. Reflecting force B. Deflecting force C. Restoring force D. Gravitational force
82	If current flowing through a solenoid becomes four times, then magnetic field inside becomes.	A. two times B. three times C. four times D. Half
83	The galvanometer can be made sensitive by making the factor BAN/C	A. Large B. Small C. Constant D. Zero
		A. wb A/m

B. Low resistance in series with

84	The permeability of free space is measured in	D. AIIVWD C. wb/Am D. m/wbA
85	Useful device to measure resistance, current and voltage is an electronic instrument called.	A. Volt meter B. Ammeter C. Ohmmeter D. Digital Multimeter
86	Brightness of screen of CRO controlled by	A. Grid B. Filament C. Anode D. Cathode
87	The anodes in cathode ray oscilloscope.	A. Control number of waves B. Control brightness of sept formed C. Accelerate as well as focus beam D. Negative potential w.r.t to chithode
88	Weber is the unit of	A. Magnetic flux B. Permeability C. magnetic force D. None of above
89	NIBA =	A. cθ B. θ/c C. c ² θ D. c ² /θ
90	If the number of turns become double but length remain same, then magnetic field in the solenoid become.	A. Half B. Double C. Remain same D. Zero
91	Sensitivity of a galvanometer can be increased by	A. Decreasing the value of torsional couple B. Decreasing number of turns C. Decreasing area of plane of coil D. Decreasing magnetic field
92	The e/m of a neutron is	A. Less than electron B. The same as electron C. Zero D. Greater than election
93	Magnetic induction can be measured in units of.	A. Tesla B. Gauss C. Weber/m2 D. All of the above
94	In current carrying long solenoid the magnetic field produced does not depend upon.	A. The radius of solenoid B. Number of turns per unit length C. Current flowing through solenoid D. All of the above
95	If the length and number of turns of a solenoid are doubled strength of magnetic field with.	A. Be doubled B. Become half C. Not change D. Be four time
96	Energy stored per uint volume inside a solenoid is called as	A. energy density B. Electric flux C. Work D. Volume charge density
97	The Grid 'G' in cathode ray oscilloscope.	A. Accelerate as well as focus electron beam B. Control no. of electrons beam C. Is at - Ve potential with respect to cathode. D. Both d and b
98	Cathode ray oscilloscope works by deflecting a beams	A. Neutrons B. Protons C. Electrons D. Positron
99	The unit of Magnetic flux is called.	A. weber B. weber/m ² C. NM ⁻¹ A ⁻¹ D. None of above
100	The sensitivity of galvanometer directly depends upon	A. Magnetic field B. Area of coil C. Both a and b D. None of a, b, c
		A. T=IBA cos B.

B. <span style="font-size:

101	Torque on a current carrying coil	13.63636302947998px;">τ = ILB sinα C. τ = IBA sinα D. τ = ILBcosα
102	The unit of magnetic induction B is	A. Coulomb B. Ampere C. Coulomb/ampere D. Weber/m ²
103	The brightness of the spot of CRO screen is controlled by.	A. Anode B. Cathode C. Grid D. Deflecting plates
104	A current carrying conductor experience maximum magnetic force in a uniform magnetic field when it is placed.	A. Perpendicular to field B. Parallel to field C. At an angle of 60 ^o to the field D. None of these
105	An ammeter is an electrical instrument which is used to measure.	A. Voltage B. Current C. Resistance D. None