G001 Online Test

Ref137

The flux is equal to

A	ϕ = Rm / Fm	B	ϕ = Fm x Rm
C	ϕ = Fm / Rm	D	ϕ = Fm + Rm
	Answer		

Ref 138

Rm is equal to

A	$l\mu$ / A	B	$L\mu$ A
C	L/μ A	D	μ A/l
	Answer		

Ref139

Flux density is equal to

A	ϕ A	B	ϕ/A
C	A/ ϕ	D	Φ+A
	Answer		

Ref140

The torque produced in electric motor is equal to

A	T + Br + L	B	T = Br/ L
C	T = BL/ r	D	T = BL r
	Answer		

Ref141

A plunger brake electro-magnetic operates at a flux density of 12 tesla. If the CSA of the magnetic circuit is 0.04 sq-m and reluctance is 12000 amp-turn / wb, what current is required to operate the magnet if the coil has 1000 turns.

A	0.288A	B	1.3A
C	0.576A	D	2.8A
	Answer		

Ref142

The induced voltage in conductor moving in magnetic field is

A	E = BLV cosΘ	B	E = BLV sinΘ
C	E = BLV	D	E = BI sinΘ
	Answer		

Ref143

The voltage induced in coil of N turns is

A	V = N ϕ	B	V = N x d ϕ/ dt
C	V = NI	D	V = N^2 ϕ
	Answer		

Ref144

What is the velocity of a conductor 150 mm long and moving at right angle to magnetic field having a flux density of 0.4 tesla? The induced voltage is 4V.

A	3.3 m/s	B	1.5 m/s
C	12 m/s	D	6 m/s
	Answer		

Ref145

The force between two current carrying conductors is

A	F = 10^{-7} I / d	B	F = NI / d
C	F = 4 Π10^{-7} I / d	D	F = 2 x 10^{-7} I / d
	Answer		

Ref146

A transformer has 50 turns on the primary and 600 turns on secondary . If a flux of 0.25 wb is induced to zero in 10 ms, calculate the induced emf in each coil.

A	E1 = 250V, E2 = 3000V	B	E1 = 300V, E2 = 25000V
C	E1 = 2500V, E2 = 30000V	D	E1 = E2 = 3000V
	Answer		

Ref147

If a conductor is being rotated at 2000 RPM in magnetic field and induces 400V . If it is rotated at 1000 RPM.. Find the induced emf.

A	50V	B	200V
C	400V	D	100V
	Answer		

Ref148

A 240 V coil 5000T produces magnetizing force 4000AT/ m . The magnetic circuit is 200 mm long. CSA 500 sq-mm. Find the resistance of the coil.

A	150Ω	B	3000Ω
C	750Ω	D	1500Ω
	Answer		