# **G001 Online Test**

## Ref137

The flux is equal to

А	φ = Fm / Rm	В	φ = Fm x Rm
С	ф = Rm / Fm	D	Φ = Fm + Rm
	Answer		

# Ref 138

Rm is equal to

Α	lμ / A	В	L/μ A
С	<b>L</b> μ <b>A</b>	D	μ Α/Ι
	Answer		

## Ref139

Flux density is equal to

А	φА	В	Α/ φ
С	ф/А	D	Ф+А
	Answer		

# Ref140

The torque produced in electric motor is equal to

Α	T = BL r	В	T = Br/ L
С	T = BL/r	D	T + Br + L
	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.

А	0.288A	В	0.576A
С	1.3A	D	2.8A
	Answer		

### Ref142

The induced voltage in conductor moving in magnetic field is

Α	E = BLV sinΘ	В	E = BLV cosθ
С	E = BLV	D	E = Bl sinθ
	Answer		

### Ref143

The voltage induced in coil of N turns is

Α	V = N ф	В	V = NI
С	$V = N \times d \phi / dt$	D	$V = N^2 \Phi$
	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.

А	6 m/s	В	1.5 m/s
С	12 m/s	D	3.3 m/s
	Answer		

Ref145

The force between two current carrying conductors is

Α	$F = 10^{-7} I / d$	В	F = NI / d
С	$F = 2 \times 10^{-7} I / d$	D	F = 4 Π10 <sup>-7</sup> 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.

Α	E1 = 250V, E2 = 3000V	В	E1 = 2500V, E2 = 30000V
С	E1 = 300V, E2 = 25000V	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.

А	100V	В	200V
С	400V	D	50V
	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.

А	1500Ω	В	3000Ω
С	750Ω	D	150Ω
	Answer		