

**G012 Online Test**

Ref160

The force produced in three phase winding of AC machine is

A	$3 \text{ Im } N e^{j\omega t}$ ----- 2	B	$\text{Im } N e^{j\omega t}$ ----- 2
C	$\sqrt{3} \text{ Im } N e^{j\omega t}$ ----- 2	D	$\sqrt{3} \text{ Im } N e^{j\omega t}$
Answer			

Ref161

Three phase , 4 poles , 36 slots, 50HZ winding . The coil span is

A	7	B	8
C	9	D	10
Answer			

Ref162

The speed of 2 poles, 25 HZ motor is

A	3000 rpm	B	1500 rpm
C	750 rpm	D	1000 rpm
Answer			

Ref163

The measured speed of three phase , 4215V, 50HZ, 2 poles motor is 2700 rpm. . Slip and % slip are

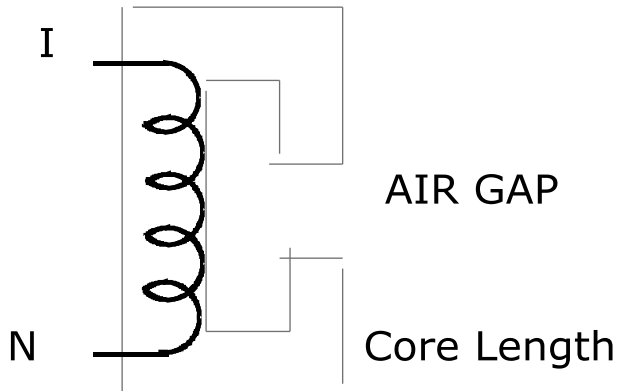
A	0.2, 20%	B	0.15, 15%
C	0.3, 30%	D	0.1, 10%
Answer			

Ref164

The relationship between voltage, current and number of turns of a transformer is

A	$V_1/V_2 = N_1/N_2 = I_2/I_1 = a$	B	$V_1/V_2 = N_2/N_1 = I_2/I_1 = a$
C	$V_1/V_2 = N_1/N_2 = I_1/I_2 = a$	D	
Answer			

Ref165



$N = 350$  Turns, Air Gap = 0.15mm, Core length = 1250mm, Flux density = 1.105 T ,  $\mu = 1800$

The current  $I$  is

A	6.2 A	B	9.3A
C	1.26A	D	3.16A
Answer			

Ref166

The voltage regulation of a synchronous generator is

A	$\frac{E_f - V}{V} \times 100\%$	B	$\frac{E_f}{V} \times 100\%$
C	$\frac{V - E_f}{V} \times 100\%$	D	
Answer			

Ref167

Synchronous impedance is

A	$Z_s = V_{oc} / I_{sc}$	B	$Z_s = V_{sc} / I_{sc}$
C	$Z_s = V_{oc} / I_{oc}$	D	
Answer			

Ref168

The voltage equation for synchronous generator is

A	$E_f = V + I Z_s$	B	$E_f = V - I Z_s$
C	$E_f = V \times I Z_s$	D	$E_f = V / I Z_s$
Answer			

Ref169

The voltage equation for synchronous motor is

A	$E_f = V + I Z_s$	B	$E_f = V - I Z_s$
C	$E_f = V \times I Z_s$	D	$E_f = V / I Z_s$
Answer			

Ref170

A motor consumes 10 KW power when connected to 259V. Calculate the current

A	46A	B	20A
C	80A	D	10A
Answer			

Ref171

A resistance  $10\Omega$  is connected to 90V DC supply. Find the current and power

A	4.5A, 405W	B	9A, 405W
C	4.5A, 810W	D	9A, 810W
Answer			

Ref172

A power station supplying 100 W at 10 KV . Find (a) current (b) If line impedance is  $0.1\Omega/\text{km}$  , for 200 Km line, find line drop.

A	100A, 2000V	B	10A, 200V
C	100A, 200V	D	10A, 2000V
Answer			

Ref173

If  $V_{\text{rms}}$  is 100V,  $V_{\text{max}}$  is

A	70.7V	B	141.42V
C	200V	D	100V
Answer			

Ref174

**L1****L2**

A	$L_{\text{total}} = L_1 + L_2$	B	$L_{\text{total}} = L_1 - L_2$
C	$L_{\text{total}} = 1 / (L_1 + L_2)$	D	$L_{\text{total}} = L_1 L_2 / (L_1 + L_2)$
<b>Answer</b>			