G037+G038+G039 Online Test

Ref257

Es   X   Er
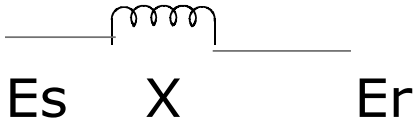
Er= 200V, X = 5 Ω   P = 1000 watt   Q = 500 VAR

The value of Es is

A	400V	B	200V
C	213.9V	D	120V
Answer			

Ref262

To provide physical damage to building & equipments due to direct and indirect lightning strike.

A	Circuit protection device to be provided	B	Equalizer to be provided
C	Site earthing to be provided	D	PF must be improved.
Answer			

Ref267

Which equipment is not included in power system equipment?

A	Main feeder	B	Consumer main
C	Sectionalising busbar	D	Recloser
Answer			

Ref292

The current in a system is 62.5A in which 59 amp is fundamental. Calculate total harmonic distortion . If the harmonic is combination of 3rd , 5th and 7th and third harmonic is 15.6A, 5th harmonic is 10.3A, find 7th harmonic.

A	60% 10A	B	34.9% 8.66A
C	70% 3A	D	15% 2A
	Answer		

Ref297

Earthing cable is to be connected to

A	Star point of star connected winding	B	Neutral conductor
C	Circuit breaker	D	
	Answer		

Ref302

Arc lengthening , arc splitting and arc cooling functions are provided in

A	Relay	B	Circuit breaker
C	Busbar	D	Recloser
	Answer		

Ref307

Switching transient causes

A	Disruption of normal operation	B	Degrading of components
C	Damage to equipments	D	All above
	Answer		

Ref312

The lightning strike can directly at

A	SPZOA	B	SPZ1
C	SPZ2	D	SPZ3
	Answer		

Ref317

The short duration reduction in the rms voltage between 0.1 and 0.9 pu caused by energizing the heavy load, single line to ground fault and load transfer from one source to remote source is

A	Sag	B	Swell
C	Surge	D	
	Answer		

Ref322

Sinusoidal wave becomes other forms of wave is

A	Voltage imbalance	B	Transient
C	Waveform distortion	D	Voltage reduction
	Answer		

Ref327

If the voltage is increased , the solution is to provide

A	Use properly tuned filter	B	Use surge detector
C	Use equalizer busbar	D	Use equipotential bonding
	Answer		

Ref332

The circuit consists of 100 V 60HZ and 5th harmonic 51V 300HZ in series with 24 ohm resistor & 18.6 mH inductor. Calculate total dissipated power.

A	209 W	B	104.5W
C	418.6W	D	836W
Answer			

Ref337

Two units of generator maintain 66KV and 60KV line at the end of an interconnector of inductive reactance per phase of 40 ohm with negligible resistance and shunt capacitance . A load of 10 MW is to be transferred from 66KV unit to the other end. Calculate the PF of the current transmitted.

A	0.1	B	0.2
C	0.3	D	0.4
Answer			