G037+G038+G039 Online Test

Ref258

Which one is required to keep the electrical conductors separated from others?

A	Circuit breaker	B	Earth wire
C	Insulation	D	Connector
	Answer		

Ref263

Coupling is used for

A	Providing electrical shielding & surge protection	B	Matching impedances.
C	Isolating the sources	D	
	Answer		

Ref288

Which equipment in substation provides protective relaying function?

A	Power, voltage control	B	Grounding
C	Metering busbar switch	D	Control circuit
	Answer		

Ref293

The deteoriated voltage source composes of a fundamental of 100V, 60HZ and a 5th harmonic of 51V. The source is connected to a resistor of 24 ohm in series with an inductance of 18.6mH. Calculate apparent power at 5th harmonic.

A	100VA	B	200VA
C	300VA	D	61.13 VA
	Answer		

Ref298

The insulator must have the capacity to withstand

A	Line voltage	B	Line current
C	Line frequency	D	Puncture stress
	Answer		

Ref303

To maintain the system stability

A	Automatic re-closing system must be provided	B	Circuit breaker must be provided.
C	Load sharing system must be provided	D	Automatic voltage regulator must be provided.
	Answer		

Ref308

Which equipment does not produce harmonic?

A	Power electronic converter	B	DC Generator
C	Transformer	D	Capacitor
	Answer		

Ref313

The main purpose of surge protection unit is

A	To eliminate surge	B	To reduce surge
C	To increase the insulation to voltage surge	D	To clamp the voltage between the signal lines and signal reference conductor.
	Answer		

Ref318

The increase of voltage magnitude between 1.1 to 1.8 pu is called

A	Sag	B	Swell
C	Surge	D	
	Answer		

Ref323

The formula is to calculate

$$I = \frac{\sqrt{I_1{}^2 + I_2{}^2 + I_3{}^2 + ----------------------}}{N - 1}$$

A	I rms	B	I avg
C	I max	D	
	Answer		

Ref328

Passive- Passive , Active- Active and Passive-Active filters are classifications of

A	Passive filter	B	Active filter
C	Hybrid filter	D	Power factor
	Answer		

Ref333

The primary winding of a transformer carries a distorted current having the following components.

Fundamental = 526A

Third harmonic = 270A

23rd harmonic = 47A

The winding has a DC resistance of 4 mΩ and stray losses are equal to 5% of total joule effect losses. Calculate the largest stray loss.

A	70 W	B	140 W
C	210 W	D	420 W
	Answer		

Ref338

To satisfy the synchronizing condition

A	Incoming machine frequency and busbar frequency are equal	B	Incoming machine voltage and busbar voltage are equal
C	Incoming machine phase sequence and busbar phase sequence are equal	D	All
	Answer		