G037+G038+G039 Online Test

Ref261

The wave front of lightning strike wave is _____ the tail of the wave.

A	much longer than	B	equal to
C	much shorter than	D	
	Answer		

Ref266

To calculate the filter

A	Total harmonic distortion needs to be calculated	B	Harmonic frequency needs to be calculated
C	PF needs to be calculated	D	Power flow needs to be calculated
	Answer		

Ref291

Soil resistivity effectively impacts on

A	Ground resistance	B	Surge impedance
C	Matching impedance	D	Step voltage
	Answer		

Ref296

To avoid physical damage to building and equipments due to light ing strike, which service is to be provided?

A	Power line earthing	B	Power stability control
C	Booster	D	Load sharing system
	Answer		

Ref301

Voltage control is provided by

A	Tap changer	B	Booster
C	Synchronous motor & load PF control	D	All above
	Answer		

Ref306

Which is the correct formula to calculate peak lightning voltage?

A	$$\text{Peak Lightning} = \frac{\text{Surge impedance}}{\text{Voltage}} \times \frac{\text{Lightning current}}{2}$$	B	$$\text{Peak Lightning voltage} = \text{Surge impedance} \times \text{Lightning current}$$
C	$$\text{Peak Lightning} = \frac{\text{Surge impedance}}{\text{Voltage}} \times \frac{\text{Lightning current}}{3}$$	D	
	Answer		

Ref311

Electrical shielding is provided for

A	Metallic equipments	B	Enclosure cabinet
C	Structural steel in building	D	All above
	Answer		

Ref316

By driving the multiple earth electrodes

A	Total earth resistance is increased	B	Total earth resistance is reduced
C	To maintain the total earth resistance	D	
	Answer		

Ref321

Sudden frequency change in the steady state condition of voltage, current (a0 both that includes +/- polarity voltage is

A	Impulsive transient	B	Oscillatory transient
C	Voltage imbalance	D	
	Answer		

Ref326

The possible impacts of power quality in transformer are

A	Core saturation , core losses and copper losses	B	Malfunctioning of relays
C	Reduction of efficiency , derating , PF decreases, parallel resonance	D	All above
	Answer		

Ref331

Which action is to be done during before emergency?

A	Optimal load shedding occurred to maintain essential load	B	Cut off the circuit breaker by relay reclosing
C	Perform efficiency improvement	D	All above
	Answer		

Ref336

An isolated 75MVA synchronous generator feeds it's own load and operates initially at no load at 3000 RPM, 50HZ. A 20 MW load is suddenly applied and the steam valve to the turbine commence to open after 0.5 sec due to the time lag in the governor system. Calculate the frequency to which the generated voltage drops before the steam flow meets the new load. The stored energy for the machine is 4KW – S- per KVA of generator capacity

A	30HZ	B	49.2HZ
C	56HZ	D	70HZ
	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		