

G015+G046 Online Test

Ref187

Calculate allowable sag of 7/3.50 hard drawn copper overhead line conductor span of 150m. The wind loading is 500 pa. Maximum tension is 60% of ultimate strength.

Ultimate strength= 26600N

Gravitational force= 5.94 N/ m

Diameter of conductor = 10.5 mm

A	3.2 m	B	5 m
C	1.678 m	D	0.8m
Answer			

Ref192

In above problem, if the cable is subject to 66 KV, three phase line, find the dielectric loss.

A	3 watt	B	1.316 watt
C	7 watt	D	10 watt
Answer			

Ref197

Which one is not a voltage control equipment?

A	Off load tap changer	B	On load tap changer
C	Booster transformer	D	Lightning arrester
Answer			

Ref202

Which is not included in basic qualities of power system?

A	Speed	B	Future forecast of load
C	Discrimination	D	Reliability
Answer			

Ref207

The grading of time is

A	Directly proportional to the grading of current	B	Inversely proportional to the grading of current
C			
Answer			

Ref221

In given specification, 10 amp / 150/40/200 the relay contacts close in

A	150 cycle	B	40 cycle
C	200 cycle	D	10 cycle
Answer			

Ref226

For 2000/1000/500/1 current transformer 10 Ps 250 is classified as

A	2.5 Ps 1000	B	5 Ps 500
C	2.5Ps 500	D	10 Ps 250
Answer			

Ref240

Equal areas criterion is utilized for

A	Calculating phase sequence	B	Calculating power flow
C	Calculating stability	D	Calculating power factor
Answer			

Ref245

Fuel cell is a

A	Electromechanical conversion device	B	Electromagnetic device
C	Electrohydraulic device	D	Electrochemical conversion device
Answer			

Ref250

In parallel operation of two generators which equipment is utilized to determine to connect them?

A	Synchroscope	B	Power meter
C	Voltmeter	D	Frequency meter
Answer			

Ref255

A transmission line has $0.0125 \mu\text{F}$ capacitance 1.5 mH inductance . It is joined with a cable of $0.3\mu\text{F}$ capacitance & 0.25 mH inductance. Calculate Maximum voltage at junction.

Line to line voltage = 50KV

A	50 KV	B	30 KV
C	25 KV	D	92.5 KV
Answer			

Ref 211.

Maximum reach and maximum reach angle are found in

A	Over current relay	B	Differential relay
C	Directional relay	D	Distance relay
Answer			

Ref212

The operation of distance relay is based on

A	Based on impedance	B	Based on current
C	Based on frequency	D	Based on power
Answer			

Ref213

The characteristics curve of distance relay is

A	Concentric circles	B	Parabola
C	Straight line	D	Hyperbola
Answer			

Ref214.

Zone protection of distance relay is based on

A	Zoning in accordance with voltage	B	Zoning in accordance with current
C	Zoning in accordance with power	D	Zoning in accordance with impedance
Answer			

Ref215.

Operating & restraining voltage and current are utilized in

A	Over current relay	B	Differential relay
C	Directional relay	D	Thermal over load relay
Answer			

Ref216

Power line can be effectively protected by

A	Over current relay	B	Differential relay
C	Directional relay	D	Distance relay
Answer			

Ref217

Explain the operation of distance relay is based on .

A	Based on impedance	B	Based on current
C	Based on frequency	D	Based on power
Answer			

Ref218.

The shape of characteristics of over current relay is

A	Straight line	B	Circle
C	Curve	D	Pulse
Answer			

Ref219.

Directional relay is also called

A	Distance relay	B	Reverse power relay
C	Differential relay	D	Over current relay
Answer			

Ref220

Earthing transformer is utilized at

A	Star connected winding side	B	Delta connected winding side
C	Zigzag connected winding side	D	None of above
Answer			

Ref231

The suitable winding method for earthing transformer is

A	Star/ Delta	B	Delta/Star
C	Delta/Delta	D	Zig Zag
Answer			

Ref232

Reactors are utilized at busbar to

A	Provide inductance	B	Limit short circuit current
C	Increase disruptive critical voltage	D	Earth leakage current flow path
Answer			

Ref233

The best way to increase the level of disruptive critical voltage to reduce the possibility of corona is

A	To increase conductor diameter	B	To use longer cross arm
C	To use hollow conductor that increase the conductor diameter	D	To increase insulation resistance
Answer			

Ref234

Switching voltage velocity is

A	$V = 1/\sqrt{LC}$	B	$V = \sqrt{LC}$
C	$V = L/C$	D	$V = 1/LC$
Answer			

Ref235

Which equipment is used in static VAR compensation system?

A	Magnetic contactor	B	Thermal switch
C	Hall effect switch	D	Silicon Controlled Rectifier
Answer			

Ref236

Poor power will cause

A	Unnecessary over current flow in line	B	Smoother voltage
C	Ripple reduction	D	Wrong phase sequence
Answer			

Ref237

Lighting strike near power transformer is protected by

A	Arcing horn	B	Lightning arrester
C	Surge absorber	D	Arcing ring
Answer			

Ref238

Lightning protection for power line is provided by

A	Arcing horn	B	Lightning arrester
C	Surge absorber	D	Arcing ring
Answer			

Ref239

Power surge protection is provided by

A	Arcing horn	B	Lightning arrester
C	Surge absorber	D	Arcing ring
Answer			