

G015+G046 Online Test

Ref186

The transformer supplies a group of 4 feeders which have individual maximum demands of 2.5, 2.4, 4.3 and 1.6 MVA. If the diversity factor is 1.82, determine the maximum demand on transformer

A	5.93MVA	B	4.3MVA
C	10.8MVA	D	2.4MVA
Answer			

Ref191

Find the insulation resistance per km of conductor diameter 1.6 cm and internal sheath diameter 5.08 cm. $\rho = 6 \times 10^{-14} \Omega/\text{cm}$.

A	500 M Ω	B	100 M Ω
C	1103 M Ω	D	2000 M Ω
Answer			

Ref196

The formula to calculate voltage regulation is

A	$\% \text{Reg} = \frac{IR \cos \phi_r + IX \sin \phi_r}{E_r}$	B	$\% \text{Reg} = \frac{R \cos \phi_r + IX \sin \phi_r}{E_r}$
C	$\% \text{Reg} = IR \cos \phi_r + IX \sin \phi_r$	D	$\% \text{Reg} = \frac{R \cos \phi_r - IX \sin \phi_r}{E_r}$
Answer			

Ref201

Which equipments is not included in trip circuit?

A	Sensor, potential transformer, current transformer	B	Battery
C	Relay contact	D	Circuit breaker
Answer			

Ref206

Differential relay senses

A	Only one input	B	Three inputs
C	Two inputs	D	Four inputs
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			

Ref225

In CT, primary and secondary windings

A	Closely linked	B	Loosely linked
C		D	
Answer			

Ref230

The following equation

$$Mc \frac{d^2\delta}{dt^2} = P_o - P_m \sin \delta$$
 is utilized to determine

A	Stability of generation	B	Power flow
C	Phase sequence	D	
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			

Ref244

In large power distribution system, reactive power control is provided by

A	Synchronous motor	B	Capacitor bank
C	Static VAR Compensation System	D	Induction motor
Answer			

Ref249

To withstand the voltage surge due to lightning strike, the power system equipments must have

A	High VA value	B	High voltage rating
C	High current rating	D	Appropriate base impulse insulation level
Answer			

Ref254

The following formula $E_g = m\delta g_0 r \ln D/r$ is utilized to calculate

A	Sending end voltage	B	Breakdown voltage to neutral
C	Visual critical voltage	D	Disruptive critical voltage.
Answer			

Ref208

Can over current & earth fault protections be combined?

A	Not sure	B	No
C	Yes	D	Not applicable
Answer			

Ref222

Buchholz relay should be utilized for

A	Transformer protection	B	Motor protection
C	Generator protection	D	Power line protection
Answer			

Ref224

For given CT , % composite error, secondary voltage and rated accuracy are 10P 150 F15

A	10%, 150V, 15	B	150%, 10V, 15
C	15%, 15V, 10	D	
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			