Assignment 8

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

1) What is the peak value of the power frequency overvoltage across contacts of a circuit breaker when an unloaded 400 kV transmission line is switched off?
   - 1236.94 kV
   - 631.92 kV
   - 635.15 kV
   - 1235.31 kV
   Accepted Answer: 635.15 kV

2) Short time current rating of circuit breaker
   - greater than the continuous current rating
   - less than the continuous current rating
   - may be either greater or lesser than the continuous current rating
   - none of the above
   Accepted Answer: greater than the continuous current rating

3) Pre-insertion resistor with circuit breaker is used to
   - decrease the peak of striking voltage and the rate of rise of recovery voltage (RRV)
   - increase the peak of striking voltage and decrease the RRV
   - increase the peak of striking voltage and the RRV
   - decrease the peak of striking voltage and increase the RRV
   Accepted Answer: decrease the peak of striking voltage and the RRV

4) A three-phase circuit breaker is rated 1000 MVA, 2000 MVA, 33 kV. What will be its making capacity?
   - 2000 MVA
   - 3000 MVA
   - 4000 MVA
   - 5000 MVA
   Accepted Answer: 2000 MVA

5) SF6 gas has heat transfer rate about
   - 2.5 times of air
   - 5 times of air
   - 10 times of air
   - same as air
   Accepted Answer: 2.5 times of air

6) Which type test is performed to carry out making and breaking operation test
   - operating voltage test
   - contact resistance test
   - overload test
   - none of the above
   Accepted Answer: contact resistance test

7) Temperature rise test is carried out for all relays
   - To check the withstand capability of insulation used in relays
   - To measure insulation of the relay
   - To ascertain correct relay characteristics
   - None of the above
   Accepted Answer: To check the withstand capability of insulation used in relays

8) The typical value of insulation resistance is of the order of
   - 5–100 kΩ
   - 1000–1000 kΩ
   - 5–50 MΩ
   - 5 MB
   Accepted Answer: 5–50 MΩ

9) All relay flags and semaphore indicators must be inspected
   - Daily or on every shift
   - Monthly
   - Bi-monthly
   - None of the above
   Accepted Answer: Daily or on every shift

10) Primary injection test is carried out to test
    - To ensure the correct installation and operation of the protection scheme
    - To check complete sequence of tripping
    - To ascertain that the relay calibration
    - None of the above
    Accepted Answer: To ensure the correct installation and operation of the protection scheme