

Code Calculation lesson 2 homework QUESTIONS ON BACK

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Multiple Choice

Identify the choice that best completes the statement or answers the question.

1. Where different temperature limitations of individual components are applied to a single circuit, the principle of the _____ is often used to determine the temperature rating of the entire circuit.
 - a. double effect
 - b. rolling stone
 - c. strongest will survive
 - d. weakest link
2. The temperature rating associated with the ampacity of a conductor shall be selected and coordinated so as not to exceed the _____ temperature rating of any connected termination, conductor, or device
 - a. average
 - b. highest
 - c. lowest
 - d. standard
3. The three most common insulated conductor temperature ratings associated with Table 310.15(B)(16) are
 - a. 60, 70, and 90 degree Celsius
 - b. 60, 75, and 90 degree Celsius
 - c. 65, 75, and 95 degree Celsius
 - d. 65, 75, and 110 degree Celsius
4. Are THHN 90 degree Celsius conductors permitted to be connected to the terminals of a circuit breaker and used at their 90 degree C ampacities as shown in Table 310.15(B)(16)?
 - a. Always
 - b. Only if circuit breaker is approved for such use
 - c. Only if the circuit breaker is listed and identified for such use
 - d. Never
5. The two most common conductor terminal temperature ratings associated with circuit breakers and other equipment rated 100 amps or less are
 - a. 60 degree C and 75 degree C
 - b. 60 degree C and 90 degree C
 - c. 60 degree C and 140 degree C
 - d. 60 degree C and 167 degree C
6. In addition to temperature ratings of wire terminals, a circuit breaker may be marked with another temperature rating such as 25 degree C or maybe even as high as 40 degree C. This marking most likely specifies the _____ temperature
 - a. Ambient
 - b. Conductor
 - c. Internal
 - d. Terminal
7. A 10 AWG THWN copper conductor is connected to a circuit breaker with termination temperature limitation marked (not to exceed) 60 degree C. What is the allowable ampacity of this conductor now that it is connected to this circuit breaker?
 - a. 25 Amps
 - b. 30 Amps
 - c. 35
 - d. 40
8. A 14 AWG XHHW-2 copper conductor is connected to a circuit breaker with termination temperature limitation marked (not to exceed) 60 degree C. What is the allowable ampacity of this conductor now that it is connected to this circuit breaker?
 - a. 12 Amps
 - b. 15 Amps
 - c. 10 Amps
 - d. 14 Amps

