Pretest Questions from Info Sections 1810

1810.01

1. What is the purpose of protection and control?

2. What are some of the most common types of switchgear protection?

3. What device is typically used to trip a breaker from a remote location?

4. What other protection is provided with phase-loss protection?

5. How does a current imbalance relay work?

6. What is the purpose of overcurrent relays?

7. Which type of protection allows an operator to decide if the system is to be shut down?

8. What device typically supplies undervoltage relays and how do they shut down the system?

9. How would continued operation at high temperatures affect transformers?

10. What device is used to sense transformer temperatures?

11. What device is similar to a ground-fault relay?

12. What device is typically found on a ground-fault relay that is not on a ground-fault receptacle?

13. What are some of the considerations when selecting protective devices?

14. What is switchgear control?

1810.02

1. What function of circuit breakers is not a function of fuses?

2. What are the two most common ratings for fuses and circuit breakers?

3. What size switch is required for a 250A, 240V fuse?

4. What size switch is required for a 700A fuse?

5. Which fuses are typically bolted in place?
6. What is a bus fuse?

7. What are the three most common types of high-voltage fuses?

8. Describe an expulsion fuse.

9. Describe a liquid filled fuse.

10. Describe a solid materials fuse.

11. What is the difference between a QOB and a QO breaker?

12. What does “trip free” mean on a breaker?

13. What is a “stored-energy” mechanism?

14. What is the purpose of the settings on the face of breakers?

15. What is a shunt trip device and what are the two main types?

**Switchgear**

1. Where are circuit protective devices and switchgear required?

2. What types of devices are typically found in switchboards?

3. Which type of device has components which can typically be pulled out for maintenance and service?

4. What is the main difference between metal-clad and metal-enclosed switchgear?

5. Which section of the CEC deals with the installation of switchgear?

6. When should maintenance begin for switchgear?

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