1. What are the three main types of electrical drawings? Single-line, wiring and schematic

2. What are the two types of single-line diagrams? Block and riser

3. Which type of electrical drawing shows the physical relationship of components in a system and how they tie together electrically? Block diagrams

4. What are the three distinguishing characteristics of block diagrams? 1. Labeled to show name, type, and sometimes catalogue number 2. Do not show actual position in real circuit 3. Do not show return path for circuit

5. Where are higher voltage components typically shown on a block diagram of a distribution system? Top

6. How is a riser diagram different from a block diagram? It is a front or side view instead of a plan view

7. Which type of diagram is typically used to show how electrical power is distributed throughout a building? Riser

8. Which type of diagram is typically used to show related electrical equipment on different floors of an apartment building? Riser

9. What is the main purpose of a schematic diagram? Show how a circuit operates

10. How are components typically represented in a schematic diagram? Standard symbols

11. Which type of wiring diagram shows the circuit conductors feeding and returning from the equipment? Wiring diagram

12. What is the purpose of a “legend” on a drawing? Show standard symbols used and their meaning

13. What is indicated by the symbol $S_D$? Automatic door switch

14. What is indicated by a solid triangle inside a circle on a plan? Special purpose outlet undesigned

15. What is the symbol for an electric door opener? Letter D inside a square

16. How is a mechanical linkage between components shown on a diagram? Dashed line
17. What are the two typical directions of flow when laying out a schematic diagram? Left to right and top to bottom

18. How is a common chassis point or connection indicated on electronic diagrams? Ground symbol

19. How is the final size of a schematic drawing determined? Number of lines, components, and notes determine the size of schematics

20. Which diagram shows how the actual wires are connected to the component terminals? Wiring diagram

21. What is a point to point wiring diagram? A separate line is drawn for each wire

22. What are the three main conventions for drawing a schematic diagram? 1. Show the power supply at the top of the page 2. Arrange the components from the left to the right 3. Identify components with reference designation

23. What is the first step in converting a wiring diagram to a schematic? Use a numbering system to identify each of the wires