

## Chapter 2: Symbols and Schematic Diagrams

1. The double-acting push button has two terminal screws.

- a. True
- b. False

*ANSWER:* False

*POINTS:* 1

*REFERENCES:* Push Buttons

2. Normally open switches are drawn with the movable contact above and touching the stationary contact.

- a. True
- b. False

*ANSWER:* False

*POINTS:* 1

*REFERENCES:* Push Buttons

3. The movable contact of the normally open held closed switch is drawn below the stationary contact.

- a. True
- b. False

*ANSWER:* True

*POINTS:* 1

*REFERENCES:* Push Buttons

4. The symbol for a limit switch illustrates a ball float.

- a. True
- b. False

*ANSWER:* False

*POINTS:* 1

*REFERENCES:* Sensing Devices

5. The flow switch symbol is used for both liquid and air flow switches.

- a. True
- b. False

*ANSWER:* True

*POINTS:* 1

*REFERENCES:* Sensing Devices

6. \_\_\_\_\_-automatic switches are generally used to select the function of a motor controller either manually or automatically.

*ANSWER:*  
Hand-off  
Hand off

*POINTS:* 1

*REFERENCES:* Switch Symbols

7. \_\_\_\_\_ push buttons combine the operation of a selector switch and push button in the same unit.

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*ANSWER:* Selector

*POINTS:* 1

*REFERENCES:* Push Buttons

8. \_\_\_\_\_ show components in their electrical sequence without regard for physical location.

*ANSWER:* Schematics

*POINTS:* 1

*REFERENCES:* Basic Schematics

9. \_\_\_\_\_ switches are drawn by adding a wedge to one of the four basic switches.

*ANSWER:* Limit

*POINTS:* 1

*REFERENCES:* Sensing Devices

10. The most common coil symbol used in schematic diagrams is the \_\_\_\_\_.

*ANSWER:* circle

*POINTS:* 1

*REFERENCES:* Coils

11. What does it mean when components are shown connected by a dashed line in a schematic diagram?

*ANSWER:* When components are shown connected by a dashed line in a schematic diagram, it indicates that the components are mechanically connected together. If one is pressed, all that are connected by the dashed line are pressed.

*POINTS:* 1

*REFERENCES:* Double Acting Push Buttons

12. Name the four basic switch symbols.

*ANSWER:* There are four basic symbols; normally open (NO), normally closed (NC), normally open held closed (NOHC), and normally closed held open (NCHO).

*POINTS:* 1

*REFERENCES:* Switch Symbols

13. What is the function of the contact referred to as a holding, sealing, or maintaining contact?

*ANSWER:* The function of a holding, sealing, or maintaining contact is to maintain a current path to the coil when the push button returns to its normal open position.

*POINTS:* 1

*REFERENCES:* Basic Schematics

14. What are the two basic types of timers?

*ANSWER:* The two basic types of timers are on delay and off delay.

*POINTS:* 1

*REFERENCES:* Timed Contacts

15. Describe the contact symbol.

*ANSWER:* The contact symbol is two parallel lines connected by wires.

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

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*POINTS:* 1

*REFERENCES:* Contact Symbols