

Electrical Symbols and Components

Electrical Engineering · Answer Key · 29 Questions

1. Which symbol represents a single pole switch?

- A) Three-way switch
- B) Single pole switch**
- C) Duplex receptacle
- D) Electrical switchbox

2. What does 'WP' stand for in the context of receptacles?

- A) Wide Plate
- B) Waterproof**
- C) Wired Power
- D) Wall Plug

3. Which type of receptacle is designed to prevent electric shock in damp locations?

- A) Isolated ground receptacle
- B) Switched receptacle
- C) GFCI duplex receptacle**
- D) 240-volt receptacle

4. What does the symbol 'HP' typically refer to for an electric motor?

- A) High Power
- B) Horsepower**
- C) Heating Point
- D) Hazardous Protection

5. Which fixture is described as 'Ceiling mounted'?

- A) Wall-mounted light fixture
- B) Ceiling fan
- C) Recessed light fixture
- D) Ceiling mounted light fixture**

6. What is the symbol for a telephone jack?

- A) Ground
- B) Telephone jack**
- C) Doorbell transformer
- D) Circuit breaker

7. Which symbol represents a device that detects smoke?

- A) Power vent fan
- B) Smoke detector**
- C) Doorbell pushbutton
- D) Circuit breaker

8. What is a 'Duplex receptacle' used for?

- A) To control a single light
- B) To provide two outlets**
- C) To detect smoke
- D) To connect a telephone

9. Which type of switch allows control of a light from two different locations?

- A) Single pole switch
- B) Three-way switch**
- C) Pullchain switch
- D) Switched receptacle

10. What does a 'Circuit breaker' primarily do?

- A) Detects smoke
- B) Transforms doorbell voltage
- C) Protects a circuit from overload**
- D) Provides two electrical outlets

11. Which symbol represents a light fixture controlled by a pullchain?

- A) Ceiling fan
- B) Weatherproof light fixture
- C) Fluorescent light fixture
- D) PC - Pullchain**

12. What is the symbol for a doorbell transformer?

- A) Doorbell pushbutton
- B) Doorbell transformer**
- C) Telephone jack
- D) Ground

13. Which receptacle is designed to have a different ground potential?

- A) GFCI duplex receptacle
- B) Isolated ground receptacle**
- C) Switched receptacle
- D) Waterproof receptacle

14. What is a 'Fourplex fourgang receptacle' likely used for?

- A) Connecting a single appliance
- B) Connecting four appliances**
- C) Controlling lights
- D) Detecting smoke

15. Which symbol represents a fan mounted on the ceiling?

- A) Power vent fan
- B) Combination light and fan
- C) Ceiling fan**
- D) Electric motor number - HP

16. What is the symbol for a wall-mounted light fixture?

- A) Ceiling mounted light fixture
- B) Weatherproof light fixture
- C) Wall-mounted light fixture**
- D) Fluorescent light fixture

17. What does 'GFCI' stand for in a receptacle?

- A) Ground Fault Circuit Interrupter**
- B) General Fault Current Indicator
- C) Ground Fault Current Inhibitor
- D) General Circuit Fault Detector

18. What is the purpose of a 'Switched receptacle'?

- A) To provide continuous power
- B) To control the power to the receptacle with a switch**
- C) To connect a telephone
- D) To protect from water damage

19. Which symbol represents a receptacle designed to withstand outdoor conditions?

- A) Duplex receptacle
- B) GFCI duplex receptacle
- C) WP - Waterproof**
- D) Isolated ground receptacle

20. What is a 'Singleplex receptacle' typically used for?

- A) Two devices
- B) One device**
- C) Three devices
- D) Four devices

21. Which symbol represents a light fixture that is recessed into the ceiling?

- A) Ceiling mounted light fixture
- B) Wall-mounted light fixture
- C) Recessed light fixture**
- D) Fluorescent light fixture

22. What is the symbol for an 'Electric motor number - HP'?

- A) Smoke detector
- B) Doorbell transformer
- C) Electric motor number - HP**
- D) Circuit breaker

23. What is the symbol for a 'Doorbell pushbutton'?

- A) Doorbell transformer
- B) Ground
- C) Doorbell pushbutton**
- D) Telephone jack

24. What does a 'Power vent fan' typically do?

- A) Provide light
- B) Ventilate air**
- C) Detect smoke
- D) Supply electrical power

25. Which symbol represents a receptacle for 240-volt power?

- A) Duplex receptacle
- B) Singleplex receptacle
- C) 240-volt receptacle**
- D) Switched receptacle

26. What is a 'Combination light and fan' used for?

- A) Separate lighting and ventilation
- B) Integrated lighting and ventilation**
- C) Only lighting
- D) Only ventilation

27. What is the symbol for a 'Fluorescent light fixture'?

- A) Ceiling fan
- B) Weatherproof light fixture
- C) Fluorescent light fixture**
- D) Combination light and fan

28. What does the symbol for 'Ground' indicate?

- A) Positive connection
- B) Negative connection
- C) Safety connection**
- D) Neutral connection

29. What is an 'Electrical switchbox' used to house?

- A) Light fixtures
- B) Receptacles
- C) Switches and wiring**
- D) Transformers