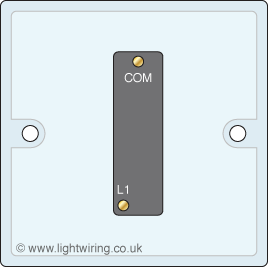
Unit 114: Electrotechnical systems and equipment

# Multiple choice questions (learner)

1. Which of the following is a statutory regulation?
2. Portable Appliance Testing
3. Manual Handling Operations Regulations
4. Electricity at Work Regulations
5. 18th Edition IET Regulations
6. So that a safe system of work is implemented correctly, the documents required to be completed are a method statement and a:
7. Permit to work
8. Risk assessment
9. Site instruction
10. Manual handling operations manual
11. A pvc/pvc cable has a:
12. pvc conductor and sheath
13. pvc conductor and insulation
14. pvc outer barrier
15. pvc insulation and sheath

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| |  | | --- | | 1. What does this diagram show? | |

1. 1-way, 1 gang switch
2. Double socket outlet
3. 2-way, 1 gang switch
4. Single socket outlet



1. The electrical unit of power is?
2. Watt
3. Volt
4. Amp
5. Ohm
6. Which of the following methods would be suitable for fixing on to a brick wall?
7. Self-tapping screw
8. Screw fixing to plastic plug
9. Sticky back tray
10. Spring toggle
11. Which of these devices protects individual circuits in a consumer unit?
12. Main switch
13. Isolator
14. Circuit breaker (CB)
15. Residual current device (RCD)
16. What type of cable is a suitable wiring system for a fire alarm circuit?
17. FP 200
18. Steel wire armoured
19. PVC singles
20. Flexible cable
21. What does the term 1.5mm2 mean when referring to cables?
22. Diameter of the cable
23. Cross-sectional diameter of conductors
24. Diameter of the insulation
25. Cross-sectional area of conductors
26. An electron:
27. has a positive charge.
28. is neutrally charged.
29. has a negative charge.
30. has no charge at all.
31. To check the polarity of an installation, a suitable meter must be set on:
32. loop impedence.
33. continuity.
34. insulation resistance.
35. RCD.
36. What is the maximum rating of an RCD protecting a socket-outlet circuit in a house?
37. 30mA
38. 100mA
39. 300mA
40. 500mA
41. The drawing below is an example of a:
42. AC parallel circuit
43. DC series / parallel circuit
44. AC series circuit
45. DC series circuit

Diagram, schematic

Description automatically generated

1. If the cable length is 5 metres, how long is that in millimetres?
2. 5000
3. 500
4. 50
5. 50,000

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1. Using Ohm's Law, if the amperage is 15A and the resistance is 0.5Ω, what is the voltage in the circuit?

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| 1. 75 volts 2. 30 volts 3. 7.5 volts 4. 15 volts 5. A circuit breaker protecting a lighting circuit in a home is normally rated at: 6. 30 amps 7. 15 amps 8. 6 amps 9. 20 amps 10. A cable is marked SWA. What does this stand for?  |  |  |  | | --- | --- | --- | | 1. Steel wire armoured 2. Steel wire amperage 3. Silver wire armoured 4. Solid wire armoured |  |  |  1. The type of drill bit used to drill a hole in a brick is called: 2. a twist drill. 3. an auger bit. 4. a masonry bit. 5. a rivet bit. 6. What type of electrical containment does the diagram show? 7. Metal trunking 8. Plastic conduit 9. Metal conduit 10. Metal trunking |
| RS PRO 316 Stainless Steel Rigid Conduit Metal 20mm 3m 1.5mm | RS ...   1. What nominal value would commonly be expected in a small 3-phase installation? 2. 230 volts 3. 110 volts 4. 400 volts 5. 500 volts |
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