1 Which one of the following is the best conductor?

A. Gold.

B. Lead.

C. Brass.

D. Copper.

2 Voltage drop in a circuit is affected by the resistance of what cable part?

A. The line conductor only.

B. The line and neutral conductors.

C. The line and earthing conductors.

D. The line, neutral and earthing conductors.

3 Which simple device consists of a coil of wire which is rotated within a magnetic field by an exterior force?

A. Motor.

B. Rectifier.

C. Inverter.

D. Generator

4 Which document details the exact dimensions of particular luminaires?

A. Site Plans.

B. Manufacturer's data.

C. Wiring diagrams.

D. Design Specification.

5 In which of the following must un-sheathed single-core insulated cable be installed?

A. Metallic Trunking.

B. Metallic basket.

C. Metallic tray. D. PVC capping.

6 A conduit is 5 m in length and contains 2 bends. What size conduit is required for the stranded single-core cables shown in the image?

A. 16 mm

B. 20 mm

C. 25 mm

D. 32 mm

7 What is the most suitable hand tool for cutting lengths of cable tray?

A. Hacksaw.

B. Cross cut saw.

C. Coping saw.

D. Keyhole saw.

8 What item of PPE must be used when drilling a hole in a steel wall bracket using a pillar drill?

A. Safety boots.

B. Leather gloves.

C. Safety googles.

D. Hard hat.

9 Which test would not apply to an electrical installation forming part of a TN-S system?

A. Earth fault loop impedance.

B. Insulation resistance.

C. Earth electrode resistance.

D. Functional tests.

10 What best describes the process where relevant site representatives meet to discuss and agree a suitable alternative location of equipment due to an issue?

A. Instruction.

B. Confrontation.

C. Observation.

D. Negotiation

11 Which test could also indicate the supply polarity?

A. External earth fault loop impedance.

B. Continuity of protective conductors.

C. Insulation resistance.

D. Continuity of ring final circuits.

12 What is the unit of measurement for recording continuity of protective conductor results?

A. mΩ.

B. Ω.

C. kΩ.

D. MΩ.

13 Which type of fire extinguisher is best suited for use on live electrical fires?

A. Water.

B. Dry powder.

C. Wet chemical.

D. Carbon Dioxide

14 What is the SI unit of measurement for temperature?

A. °C (Centigrade).

B. °F (Fahrenheit).

C. °K (Kelvin).

D. °T (Temps).

15 Herz is the SI unit of measurement for what quantity?

A. Resistivity.

B. Frequency.

C. Reactance.

D. Capacitance.