

Answers.

1Hr Hour – Section A. Written (M2005)

1.
 - a) Minor Works Certificate
 - b) Duty Holder
 - c) Competent Person

2.
 - a) Electricity at Work Regulations 1989
 - b) GS38
 - c) BS7671:2001 (16TH Edition)

3.
 - a) A full re-wire (or any new circuit ie: Shower – Cooker, etc)
 - b) Lapse of Time – Change of ownership – Change of Tenancy – Fire Damage
 - c) Additional socket to existing ring – (any additions that do not require a new way at the DB).

4.
 - a) Receiving an electric shock from a conductive that would not be expected to be live – ie: a motor housing.
 - b) Earthed Equipotential Bonding and automatic disconnection of supply (EEBADS) – SELV – RCD (supplementary)

5.
 - a) Direct Contact
 - b) Both Direct Contact & Indirect

6.
 - a) Conduit, Trunking, a metal Motor Housing, a Cooker Housing
 - b) A sink top, a water pipe
 - c) touching a live bus-bar

7.
 - a) TNC-S
 - b) TN-S
 - c) TT

8.
 - a) Insulation Resistance Tester
 - b) Prospective Short Circuit Current Tester (as part of an ELZ Tester)
 - c) RCD Tester

9.
 - a) Termination of Conductors
 - b) Identification of Conductors
 - c) Routing of Conductors

10.

a) $R1 \times 1.67 = 0.6\Omega \times 1.67 = 1\Omega$

b) $\frac{R1+Rn}{4} = 0.3\Omega$

c) If this occurs it is due to cross connections in the wrong conductors at the DB leading to the furthest point.

11.

a) Furthest Point

b) Phase to CPC

c) This is the R1 + R2 value – and confirms continuity.