

2391 REVISION (Each Question carried 3 Marks).

1.

List the meters used and the scales utilised for

- a) Continuity of CPC
 - b) Continuity of Ring Final
 - c) Insulation Resistance
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- a) Low Resistance Ohmeter – Low Ohms
 - b) Low Resistance Ohmeter – Low Ohms
 - c) Insulation Resistance Tester - MΩ at 500V dc

2.

List the Insulation Resistance Test Voltages For:

- a) SELV circuit
 - b) Domestic Ring Circuit
 - c) 600V Industrial Conveyor system
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- a) 250V dc
 - b) 500V dc
 - c) 1000V dc

3.

- a) List two methods utilised for Basic Protection
- b) List one method utilised for Fault Protection

- a) Insulation – barriers & enclosures
- b) Automatic Disconnection of Supply (ADOS)

4.

List the Units that are measured with the following Instruments:

- a) An I/R Tester
 - b) A Continuity Tester
 - c) An RCD Tester
-
- a) MΩ
 - b) Low Ohms (Ω)
 - c) mS

5.

- a) What is the equation used to determine Earth Loop Impedance (ie: $Z_s = \dots\dots\dots?$)
- b) Where on a circuit must a reading for Z_s be carried out.

- a) $Z_s = Z_e + (R_1 + R_2)$
- b) At the furthest point

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