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An Electrical installation certificate requires a tick against three types of work, they are

- (A) Minor works, Periodic inspection, Alterations
- (B) Periodic testing, additions, visual inspection
- (C) New installations, Alterations, Additions to existing installations
- (D) Cable colour change, New switches, low energy lamps

Answer:

(C) New installations, Alterations, Additions to existing installations

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An Electrical installation certificate requires the due date of the first periodic inspection and test to be recorded by

- (A) The installer
- (B) The person carrying out the test
- (C) The designer
- (D) The customer

Answer:

(C)The designer

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Which of the following is a non statutory document

- (A) EWAR 1989
- (B) BS 7671
- (C) ESQCR 2002
- (D) HASAWA 1974

Answer:

(B)BS 7671

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Which sense human sense would be best suited to identifying an incomplete enclosure

- (A) Smell
- (B) Hearing
- (C) Touch

Answer:

(D)Sight

(D) Sight

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High levels of safety must be present when using test leads and probes, which of the following would be suitable

(A) Accurate test equipment

(B) Finger guards

(C) Probes exceeding 4mm

(D) Very short leads

Answer:

(B) Finger guards

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Which instrument would be used to carry out a test for the continuity of protective bonding conductors

(A) A low resistance ohmmeter

(B) A continuity tester

(C) A high ohmmeter

(D) An insulation resistance tester

Answer:

(A) A low resistance ohmmeter

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When carrying out a test for protective bonding continuity the test instrument should have a range of

(A) 0.2 to 2M Ω

(B) 0.01 to 100 Ω

(C) 2.0 to 20 Ω

(D) 0.2 to 2.0 Ω

Answer:

(D) 0.2 to 2.0 Ω

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When carrying out a test on main protective bonding it is important that

(A) One end is disconnected

(B) The installation is not isolated

Answer:

(A) One end is disconnected

(C) It is connected at both ends

(D) The correct colour test leads
) are used

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When carrying out a ring circuit test the end to end resistance for each live conductor is 0.60 and the cpc end to end resistance is 1.00. The expected value between L and E at each socket after cross connection would be

(A) 1.6Ω

(B) 0.3Ω

(C) 0.4Ω

(D) 1.2Ω
)

Answer:

(C) 0.4Ω

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The minimum permissible insulation resistance value between live conductors and earth on a low voltage lighting circuit is

(A) 1.0Ω

(B) 1.0mΩ

(C) 1.0 MΩ

(D) 0.5MΩ
)

Answer:

(C) 1.0 MΩ

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State the minimum acceptable insulation resistance test voltage for a circuit supplying equipment at 600v

(A) 1000v d.c.

(B) 500v d.c.

(C) 600v d.c.

(D) 250v d.c.
)

Answer:

(A) 1000v d.c.

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Name three special locations identified in BS 7671

(A) Caravan park, ice skating
rink, room containing a bath

Answer:

(B) Restrictive conductive location, Marina, Construction site
)

or shower

- Restrictive conductive
- (B) location, Marina,
Construction site
- Sauna, areas with protective
- (C) conductor currents,
Swimming pool
- (D) Street lighting, mines and
) quarries, underground car
parks

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The IP rating specific to finger protection is

- (A) IPXXB
- (B) IP2X
- (C) IPXXD
- (D) IPX2
)

Answer:
(A) IPXXB

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The minimum IP rating for the cover plate on the top of a motor is

- (A) IP56
- (B) IPX2
- (C) IPX4
- (D) IP4X
)

Answer:
(D) IP4X

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The external loop impedance for an installation should be measured at

- (A) The end of a final circuit
- (B) The nearest socket outlet
- (C) The origin of the supply
- (D) At each socket outlet
)

Answer:
(C) The origin of the supply

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The maximum Z_e expected for a TN-C-S system would be

- (A) 0.8Ω
- (B) 0.035Ω
- (C) 21Ω
- (D) 0.35Ω

Answer:
(D) 0.35Ω

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Z_e should always be measured with the earthing conductor

- (A) Disconnected from the consumers unit
- (B) Coiled up
- (C) Bypassed
- (D) Connected to the consumers unit

Answer:
(A) Disconnected from the consumers unit

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A metallic earth return path would be found in a

- (A) TT system
- (B) TN-S system
- (C) TN-C-S system
- (D) TN-C system

Answer:
(B) TN-S system

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The symbol $I_{\Delta n}$ is used to indicate the

- (A) Maximum RCD operating current
- (B) The tripping time of an RCD
- (C) The type of RCD
- (D) The current at which the RCD should trip

Answer:
(D) The current at which the RCD should trip

(A) 0.03mA

(B) 0.30mA

(C) 100mA

(D) 0.03A

Answer:
(D) 0.03A