

***Practical Guide to Inspection Testing and  
Certification of Electrical Installations 3rd edition  
Kitcher Test Bank***

SKU: 9780080969077-TEST-BANK

**1 What is the status of the person who is carrying out an inspection and test**

- (A) Duty holder
- (B) Electrician
- (C) Competent
- (D) Qualified

**Answer:** (A) Duty holder

**2 Which of the following documents is non statutory**

- (A) Electricity at work regulations 1989
- (B) Health and safety at work regulations 1974
- (C) Electrical safety quality and continuity regulations 2002
- (D) GS 38

**Answer:** (D) GS 38

**3 The correct document required when an electrical installation has been overloaded is**

- (A) An electrical installation certificate
- (B) A minor works certificate
- (C) An electrical installation condition report
- (D) A periodic inspection report

**Answer:** (D) A periodic inspection report

**4 A periodic inspection need not be carried out when**

- (A) It is too expensive
- (B) Regular documented maintenance is carried out
- (C) The due date has expired
- (D) The installation is more than 10 years old

**Answer:** (B) Regular documented maintenance is carried out

**5 A low resistance ohmmeter must produce a voltage of**

- (A) 50v
- (B) 500v
- (C) 2 - 24v
- (D) 2 - 24mV

**Answer:** (C) 2 - 24v

**6 A test instrument which could be used to measure the resistance of an earth electrode is**

- (A) A low resistance ohm meter
- (B) An earth fault loop impedance tester
- (C) A prospective short circuit current tester
- (D) An insulation resistance tester

**Answer:** (B) An earth fault loop impedance tester

**7 Why is it important that the tests carried out during an initial verification carried out in the correct order**

- (A) To save time
- (B) To avoid excessive battery use
- (C) Safety
- (D) It is easy to remember

**Answer:** (C) Safety

**8 The calculation for circuit earth fault loop impedance is**

- (A)  $Z_s = Z_e + R_1 + R_2$
- (B)  $Z_e = Z_s - R_1 + R_2$
- (C)  $Z_s = Z_e + R_1 + R_n$
- (D)  $Z_e = Z_s + R_1 + R_2$

**Answer:** (A)  $Z_s = Z_e + R_1 + R_2$

**9 A conductor which is 36 m long has a resistance of 7.41mΩ per meter calculate its end to end resistance**

- (A) 0.26mΩ
- (B) 2.66Ω
- (C) 0.26Ω
- (D) 2.66mΩ

**Answer:** (C) 0.26Ω

**10 The circuits in an installation have an insulation resistance of 20MΩ, 34MΩ 18MΩ and 20MΩ if the insulation resistance was measured from the meter tails the expected insulation resistance would be**

- (A) 5.40MΩ
- (B) 546MΩ
- (C) 5.46Ω
- (D) 5.46mΩ

**Answer:** (A) 5.40MΩ

**11 The test which must be carried out prior to the RCD test during a periodic inspection is**

- (A) Push button test
- (B) Prospective short circuit current
- (C) Earth fault loop impedance
- (D) Insulation resistance

**Answer:** (C) Earth fault loop impedance

**12 The tests currents required when testing a 300mA RCD are**

- (A) 150mA, 300mA and 1500mA
- (B) 15mA, 30mA and 150mA
- (C) 0.15A, 0.3A
- (D) 0.015A 0.030A

**Answer:** (C) 0.15A, 0.3A

**13 The first three tests required for an initial verification are**

- (A) Polarity, Insulation resistance and earth fault loop
- (B) Continuity of protective conductors, polarity and insulation resistance
- (C) Ring final circuit test, insulation resistance and earth fault loop impedance
- (D) Continuity of protective conductors, ring final circuit test and insulation resistance

**Answer:** (D) Continuity of protective conductors, ring final circuit test and insulation resistance

**14 The maximum rating of an RCD used for fire protection is**

- (A) 300mA
- (B) Time delayed 300mA
- (C) Time delayed 30mA
- (D) 500mA

**Answer:** (A) 300mA

**15 The correct IP rating for equipment installed in Zone 2 of a bathroom is**

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

**Answer:** (C) IPX4

**16 The IP rating used to indicate finger protection is**

- (A) IP2X
- (B) IPXXB
- (C) IP4X
- (D) IPXXD

**Answer:** (B) IPXXB

**17 The current which should cause automatic disconnection of a 20a type B BS EN 60898 circuit breaker is**

- (A) 100A
- (B) 200A
- (C) 100mA
- (D) 21A

**Answer:** (A) 100A

**18 The stated maximum  $Z_e$  for a TN-S supply system is**

- (A)  $0.35\Omega$
- (B)  $0.21\Omega$
- (C)  $0.8\Omega$
- (D)  $0.85\Omega$

**Answer:** (C)  $0.8\Omega$

**19 A TT system is normally an**

- (A) Overhead supply
- (B) Underground supply
- (C) Generator supply
- (D) A top to tail supply

**Answer:** (A) Overhead supply

**20  $I_{pf}$  is the symbol used for the value of**

- (A) Current power factor
- (B) Current, power and frequency
- (C) Frequency of phase current
- (D) Prospective fault current

**Answer:** (D) Prospective fault current