#### Sample Questions - C&G 2382-10 17th Edition

#### 1 o/c1 Electrical installation design shall take into account

- a electromagnetic disturbances
- b direct lightning strikes
- c current world copper prices
- d local authority planning approval.
- 2 The Regulations are designed to protect:
- a. Persons, property and livestock
- b. Persons and livestock only
- c. Persons and property only
- d. Persons only

### 3 Oc1 BS 7671 provides requirements for safety against the risk of

- a electric shock on an aircraft
- b shock currents on board ships
- c fire on offshore installations
- d shock currents in electrical installations. Answer d

## 4 Which one of the following types of electrical installation is <u>not</u> covered by BS 7671?

- a High protective conductor current installations
- b Lightning protection of buildings
- c Conducting locations with restricted movement
- d Highway power supplies

# 5 o/c2 The symbol used to show that a BS 88 device has a motor circuit application is

- a gG
- b gM
- $c |_{z}$
- $d I_2$ .

#### 6 o/c 2 - gM is a category of BS 88 fuses used in:

- a motor circuit applications.
- b general circuit applications.
- c heating circuit applications.
- d mixed circuit applications.

#### 7 o/c2 The symbol for rated current of a protective device is

- a Ib
- $b I_n$
- c I<sub>t</sub>

#### $d l_a$ .

8 o/c3 - The requirements for overload current protection are met when:

- a Ib = 15A, In = 20A, Iz = 18A.
- b Ib = 20A, In = 15A, Iz = 20A.
- c Ib = 8A, In = 15A, Iz = 16A.
- d Ib = 2.5A, In = 10A, Iz = 9A.

9 o/c 3 With reference to the nature of the supply, which one of the following can be determined by calculation, enquiry or measurement?

- a The maximum demand of the installation
- b The rating of the circuit protective device
- c The prospective short-circuit current at the origin of the installation
- d The csa of the tails

#### 10 o/c3 Diversity may be taken into account when considering

- a maximum demand of the installation
- b a TN-C-S system
- c the prospective short-circuit fault current
- d the number of final circuits.

#### 11 oc3 Every installation must be divided into circuits as necessary in order to

- a reduce the cost of installation
- b make installation easier
- c install a cooker
- d facilitate safe inspection, testing and maintenance.

### 12 oc3 When making an assessment of the frequency and quality of maintenance, a factor to be considered is that

- a power factor is monitored
- b protective measures for safety remain effective
- c starting currents are at a minimum
- d unbalanced loads need to be checked more frequently.

# $13\ 3\ o/c4$ Which of the following need <u>not</u> be tested under fire conditions to ensure compliance with non-flame propagating requirements?

- a Cables
- b Protective devices
- c Conduit systems
- d Trunking systems

# 14 7 o/c4 - Protection against overvoltages of atmospheric origin is set out in Section:

a 422.

- b 443.
- c 445.
- d 514.

15 o/c 4 - table 41.1 What will be the operating time for a 60A BS 3036 protective device when the value of fault current is 205A:

- a 0.2 seconds.
- b 0.4 seconds.
- c 0.8 seconds.
- d 5.0 seconds.

16 o/c 4 - The current rating of a BS 3036 fuse should not exceed that of the lowest rated conductor in the circuit multiplied by:

- a 2.0.
- b 1.5.
- c 1.45.
- d 0.725.

17 o/c4 - Prevention of a shock by touching a metallic part not normally live but made live under fault conditions is called:

- a fault protection.
- b basic protection.
- c indirect contact.
- d direct contact.

18 o/c 4 In a 230V TN system, for final circuits exceeding 32A the disconnection time is limited to:

- a 0.2s.
- b 0.4s.
- c 1.0s.
- d 5.0s.

19 o/c 4- Correct co-ordination between circuit conductors and an overcurrent protection device is achieved when:

- a In exceeds the lowest current carrying capacity Iz.
- b In is less than the design current Ib.
- c Ib is less than Iz.
- d Iz is lower than or equal to Ib.

20 o/c4 - A 230V 13A socket radial circuit is protected by a Type B 20A mcb to BS EN 60898. The maximum value of earth fault loop impedance to ensure compliance with shock constraints is:

- a 2.30  $\Omega$ .
- b  $2.87 \Omega$ .

- c  $1.15 \Omega$ .
- d 2.40  $\Omega$ .
- 21 o/c4 To meet the requirements of BS 7671, all overcurrent protective devices, without back-up protection on the supply side, must be capable of:
- a operating at their rated current.
- b operating at a current lower that their rated current.
- c withstanding the prospective short-circuit current at that point in the installation.
- d not operating during a short-circuit fault.
- 22 o/c 4 Which is a method of fault protection
- 1 out of reach
- 2 Reinforced insulation
- 3 Obstacles
- 4 Insulation of live parts
- 23 o/c4 The maximum disconnection time for a circuit supplied by a reduced low voltage system using a 110 V midpoint earthed transformer is
  - a 0.2 second
  - b 0.4 second
  - c 1 second
  - d 5 seconds.
- $24 \, \text{Oc}4$  An undervoltage device has operated and restoring the supply may cause danger. The reclosure of this device should be
- a automatic when under the supervision of a competent person
- b manually operated
- c possible only with the use of a key or tool
- d automatic with time delay.
- 25 o/c4 A 32 A type B circuit-breaker is used to give a disconnection time of 5 seconds in a reduced low voltage system with a nominal voltage to Earth ( $U_o$ ) of 55 V. What is the maximum value of earth fault loop impedance ( $Z_s$ )?
- a  $0.44 \Omega$
- b  $0.34 \Omega$
- c  $0.17 \Omega$
- d  $0.09 \Omega$
- 26 o/c4 Where arcs, sparks or particles at high temperature may be emitted by fixed equipment in normal service, the equipment shall be
- a totally enclosed in arc-resistant material
- b protected by a 30 mA RCD
- c enclosed to at least IP55

- d accessible only by use of a key or tool.
- 27 o/c 5 Circuits feeding fixed equipment used in highway power supplies shall have a maximum disconnection time of:
- a 0.2 seconds.
- b 0.4 seconds.
- c 2.0 seconds.
- d 5.0 seconds.
- 28 o/c 5- When cables are placed directly in the ground they should be buried at a depth:
- a sufficient to avoid damage.
- b of not less than 0.6 m.
- c of not less than 2.0 m.
- d sufficient to allow access.
- 29 o/c 5 A means of isolation may be installed remote from the equipment if:
- a it is fitted with non-interchangeable keys.
- b the isolator can be secured in the open position.
- c it is in full view of people working on the equipment.
- d it is hand operated and a visual display is activated near the equipment.
- 30 o/c 5 What is the value for 'k' when calculating the csa of a protective conductor incorporated in a sheathed cable:
- a 143.
- b 133.
- c 115.
- d 103.
- 31~o/c5 Circuits supplied by a generator set which is not permanently fixed Notes shall have additional protection by a
- a BS 88 device only
- b 30mA RCD
- c IOOmA RCD
- d 500mA RCD.
- 32 o/c5 A wiring system is to be installed between a safety source and a main distribution board. The risks required to be reduced to a minimum do <u>not</u> include
  - a short-circuit
  - b earth fault
  - c ageing
  - d fire.

33 o/c 5 Which of the following methods of protection against indirect contact is allowed in highway power supplies and equipment:

- a non-conducting locations.
- b earth-free equipotential bonding.
- c EEBADs.
- d placing out of reach.

34 o/c 5 - Which one of the following devices may be used for functional switching:

- a a 13A socket outlet and plug.
- b a 60A d.c. isolator.
- c a 13 A fuse.
- d a plug and socket outlet > 32A.

35 o/c 5 - Cable surrounded by thermal insulation for a length of 100mm shall have a derating factor of:

- a 0.88.
- b 0.78.
- c 0.63.
- d 0.51.

# 36 o/c5 If the construction of equipment is unsuited to the external influences of its location, it should be

- a given a plastic coating
- b given a zinc finish
- c provided with additional protection during erection
- d supplied by SELV only.

# 37 o/c 5 A plug and socket-outlet may be used for switching off for mechanical maintenance as long as it does not have aurating exceeding

- a 13A
- b 16A
- c 32A
- d 45A.
- 537.3.2.6

### 38 o/c5 A static type uninterruptible power supply source shall comply with

- a BS3036
- b BS1361
- C BS EN 60898
- d BS EN 62040.

# 39 oc 5 Unless otherwise confirmed as suitable, switchgear, protective devices and accessories shall not be connected to conductors intended to operate at a temperature in excess of

a 30 °C b 50 °C

7

- c 70 °C
- d 90 °C.

40 oc5 When conductors are identified by numbers, the neutral shall be identified by the number

- a 0
- b 4
- c 5
- d 14.

41 o/c6 A simple method to allow for measured values of loop impedance to be effectively compared with tabulated maximum values is to correct these maximum values by multiplying them by

- a 0.75
- b 0.8
- c 1.2
- d 1.8.

42 o/c 6 - Methods of inspection and testing are described in Guidance Note:

- a 1.
- b 2.
- c 3.
- d 4.

43 o/c6 - Put the following the following four tests in the order in which they should be carried out: 1- insulation resistance 2 - prospective fault current 3 - polarity 4 - continuity of protective conductors:

- a 4,1,3,2.
- b 2,1,4,3.
- c 3,4,2,1.
- d 2,1,3,4.

# 44 o/c6 Prospective fault current is recorded using the highest value determined from the prospective

- a short circuits and earth leakage currents
- b short circuit and earth fault currents
- c earth leakage and breaking capacity currents
- d breaking capacity and earth fault currents.

45 oc 6 When carrying out a visual inspection of an electrical installation, which one of the following does <u>not</u> have to be verified?

a The methods of protection against electric shock

- b The electricity supplier
- c The connection of conductors
- d The presence of undervoltage protective devices

46 oc6 An insulation resistance test is to be carried out on a 3-phase 400 V circuit. The test voltage and minimum acceptable reading would be

- a 250Va.candO.5MQ
- b 500Vd.c.and0.5MQ
- c 500Vd.c.and1 MQ
- d 800Vd.candO.5Q.

47 o/c7 - Which one of the following protective measures is not applicable to equipment in Zone 2 of a swimming pool:

- a individual protection by electrical separation.
- b protection by obstacles.
- c SELV.
- d protection by an RCD in accordance with Regulation 415.1.1.

48 o/c7 Within a conducting location with restricted movement, supplies to 110 V mobile equipment must provide protection against electric shock by the use of

- a electrical separation
- b Class II protection
- c obstacles
- d PELV.

49 o/c7 The minimum cross sectional area for a cable carrying up to 25A in a caravan shall be:

- a 2.5mm2.
- b 4mm2.
- c 6mm2.
- d 10mm2.

50 o/c 7 - In marinas, equipment installed above a jetty and where it might be subject to water splashes shall have a degree of ingress protection to at least:

- a IPX4.
- b IPX5.
- c IPX6.
- d IPX7.

51 o/c 7 - If cleaning by use of water jets in a room containing a sauna heater electrical equipment shall have a degree of protection against ingress of at least:

- a IP5X.
- b IP X5.
- c IP4X.

d IPX4.

52 o/c 7 - In agricultural premises an RCD may be used for protection against fire. The current rating should not exceed:

- a 30 mA.
- b 100 mA.
- c 300 mA.
- d 500 mA.

53 o/c 7 Overhead conductors in marinas where there is no vehicle movement must be at a height no less than:

- a 2.0m.
- b 2.5m.
- c 3.0m.
- d 3.5m.

54 o/c 7 Any cable intended to supply temporary exhibition structures shall have, at its origin, an RCD having a maximum rated residual operating current of

- a 30mA
- b 100mA
- c 300mA
- d 500mA.

### 55 oc7 The requirements of Section 704 of BS 7671 apply to

- a cloakrooms
- b offices
- c construction and demolition site installations
- d toilets.

704.1.1

56 oc 7 For an electric floor heating system in a bathroom, a fine mesh metallic grid is <u>not</u> required to be connected to the protective conductor of the supply circuit if the protective measure used is

- a SELV
- b electrical separation -
- c a non-conducting location
- d an earth-free equipotential zone.

58 o/c8 The maximum value of voltage drop for lighting in a low voltage installation supplied from a public distribution system is

- a 3%
- b 4%
- c 5%
- d 6%.

# 59 oc8 The ambient air temperature rating factor for 90 °C thermosetting cables operating in an ambient air temperature of 60 °C is

a 0.50

b 0.56

c 0.63

d 0.71.

### 60A final circuit is the wiring between

- A. supply company's fuse and the energy meter
- B. main switch and the distribution board
- C. distribution board and current using equipment
- D. supply company's fuse and the remotest outlet point

Answers below

#### Sample Questions - C&G 2382-10 17th Edition

#### 1 o/c1 Electrical installation design shall take into account

- a electromagnetic disturbances
- b direct lightning strikes
- c current world copper prices
- d local authority planning approval.

Answer a See Part 1: Scope, Regulation 131.6.4.

- 2 The Regulations are designed to protect:
- a. Persons, property and livestock
- b. Persons and livestock only
- c. Persons and property only
- d. Persons only
- 3 Oc1 BS 7671 provides requirements for safety against the risk of
- a electric shock on an aircraft
- b shock currents on board ships
- c fire on offshore installations
- d shock currents in electrical installations. Answer d

Regulation 110.2, Exclusions from scope, advises that options a, b and c are outside the scope.

Regulation 131.1

- 4 Which one of the following types of electrical installation is <u>not</u> covered by BS 7671?
- a High protective conductor current installations
- b Lightning protection of buildings
- c Conducting locations with restricted movement
- d Highway power supplies

110.2

- 5 o/c2 The symbol used to show that a BS 88 device has a motor circuit application is
- a gG
- b gM
- $c |_{z}$
- $d I_2$ .

Answer b See Part 2: Definitions, Symbols.

- 6 o/c 2 gM is a category of BS 88 fuses used in:
- a motor circuit applications.
- b general circuit applications.
- c heating circuit applications.

d mixed circuit applications.

### 7 o/c2 The symbol for rated current of a protective device is

a Ib

b 1,

c It

 $d l_a$ .

#### Answer b

See Part 2: Definitions, Symbols.

8 o/c3 - The requirements for overload current protection are met when:

a Ib = 15A, In = 20A, Iz = 18A.

b Ib = 20A, In = 15A, Iz = 20A.

c Ib = 8A, In = 15A, Iz = 16A.

d Ib = 2.5A, In = 10A, Iz = 9A.

9 o/c 3 With reference to the nature of the supply, which one of the following can be determined by calculation, enquiry or measurement?

- a The maximum demand of the installation
- b The rating of the circuit protective device
- c The prospective short-circuit current at the origin of the installation

d The csa of the tails

### 10 o/c3 Diversity may be taken into account when considering

- a maximum demand of the installation
- b a TN-C-S system
- c the prospective short-circuit fault current
- d the number of final circuits.

311.1

#### 11 oc3 Every installation must be divided into circuits as necessary in order to

- a reduce the cost of installation
- b make installation easier
- c install a cooker

#### d facilitate safe inspection, testing and maintenance.

314.1

# 12 oc3 When making an assessment of the frequency and quality of maintenance, a factor to be considered is that

a power factor is monitored

#### b protective measures for safety remain effective

- c starting currents are at a minimum
- d unbalanced loads need to be checked more frequently.

13 3 o/c4 Which of the following need <u>not</u> be tested under fire conditions to ensure compliance with non-flame propagating requirements?

a Cables

#### b Protective devices

- c Conduit systems
- d Trunking systems

Answer b See Part 4: Protection for safety, Regulation 422.2.1.

- 14 7 o/c4 Protection against overvoltages of atmospheric origin is set out in Section:
- a 422.

#### b 443.

- c 445.
- d 514.
- 15 o/c 4 table 41.1 What will be the operating time for a 60A BS 3036 protective device when the value of fault current is 205A:
- a 0.2 seconds.
- b 0.4 seconds.
- c 0.8 seconds.
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- a 2.0.
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- c 1.45.
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- 17 o/c4 Prevention of a shock by touching a metallic part not normally live but made live under fault conditions is called:
- a fault protection.
- b basic protection.
- c indirect contact.
- d direct contact.
- 18 o/c 4 In a 230V TN system, for final circuits exceeding 32A the disconnection time is limited to:
- a 0.2s.
- b 0.4s.
- c 1.0s.
- d 50s

19 o/c 4- Correct co-ordination between circuit conductors and an overcurrent protection device is achieved when:

- a In exceeds the lowest current carrying capacity Iz.
- b In is less than the design current Ib.

#### c Ib is less than Iz.

d Iz is lower than or equal to Ib.

20 o/c4 - A 230V 13A socket radial circuit is protected by a Type B 20A mcb to BS EN 60898. The maximum value of earth fault loop impedance to ensure compliance with shock constraints is:

### a $2.30 \Omega$ .

- b 2.87  $\Omega$ .
- c 1.15 Ω.
- d 2.40  $\Omega$ .

21 o/c4 - To meet the requirements of BS 7671, all overcurrent protective devices, without back-up protection on the supply side, must be capable of:

- a operating at their rated current.
- b operating at a current lower that their rated current.

 withstanding the prospective short-circuit current at that point in the installation.

d not operating during a short-circuit fault.

22 o/c 4 Which is a method of fault protection

1 out of reach

#### 2 Reinforced insulation

- 3 Obstacles
- 4 Insulation of live parts

23 o/c4 The maximum disconnection time for a circuit supplied by a reduced low voltage system using a 110 V midpoint earthed transformer is

- a 0.2 second
- b 0.4 second
- c 1 second
- d 5 seconds.

Answer dSee Part 4: Protection for safety, Regulation 411.8.3.

# $24 \, \mathrm{Oc}4$ An undervoltage device has operated and restoring the supply may cause danger. The reclosure of this device should be

a automatic when under the supervision of a competent person

#### b manually operated

- c possible only with the use of a key or tool
- d automatic with time delay.

**Answer b**See Part 4: Protection for safety, Regulation 445.1.5.

25 o/c4 A 32 A type B circuit-breaker is used to give a disconnection time of 5 seconds in a reduced low voltage system with a nominal voltage to Earth ( $U_o$ ) of 55 V. What is the maximum value of earth fault loop impedance ( $Z_s$ )?

- a  $0.44 \Omega$
- b  $0.34 \Omega$
- c  $0.17 \Omega$
- d  $0.09 \Omega$

reg411.8 table 41.6

26 o/c4 Where arcs, sparks or particles at high temperature may be emitted by fixed equipment in normal service, the equipment shall be

#### a totally enclosed in arc-resistant material

- b protected by a 30 mA RCD
- c enclosed to at least IP55
- d accessible only by use of a key or tool.

421.3

27 o/c 5 - Circuits feeding fixed equipment used in highway power supplies shall have a maximum disconnection time of:

- a 0.2 seconds.
- b 0.4 seconds.
- c 2.0 seconds.
- d 5.0 seconds.

28 o/c 5- When cables are placed directly in the ground they should be buried at a depth:

#### a sufficient to avoid damage.

- b of not less than 0.6 m.
- c of not less than 2.0 m.
- d sufficient to allow access.

29 o/c 5 - A means of isolation may be installed remote from the equipment if:

a it is fitted with non-interchangeable keys.

### b the isolator can be secured in the open position.

- c it is in full view of people working on the equipment.
- d it is hand operated and a visual display is activated near the equipment.

30 o/c 5 - What is the value for 'k' when calculating the csa of a protective conductor incorporated in a sheathed cable:

- a 143.
- b 133.
- c 115.
- d 103.

31 o/c 5 Circuits supplied by a generator set which is not permanently fixed Notes shall have additional protection by a

a BS 88 device only

#### b 30mA RCD

- c IOOmA RCD
- d 500mA RCD.

Answer b See Part5: Selection and erection of equipment, Regulation 551.4.4.2.

32 o/c5 A wiring system is to be installed between a safety source and a main distribution board. The risks required to be reduced to a minimum do <u>not</u> include

- a short-circuit
- b earth fault

### c ageing

d fire.

Answer c See Part5: Selection and erection of equipment, Regulation 560.8.3.

33 o/c 5 Which of the following methods of protection against indirect contact is allowed in highway power supplies and equipment:

- a non-conducting locations.
- b earth-free equipotential bonding.

#### c EEBADs.

d placing out of reach.

34 o/c 5 - Which one of the following devices may be used for functional switching:

### a 13A socket outlet and plug.

- b a 60A d.c. isolator.
- c a 13 A fuse.
- d a plug and socket outlet > 32A.

35 o/c 5 - Cable surrounded by thermal insulation for a length of 100mm shall have a derating factor of:

a 0.88.

#### b 0.78.

- c 0.63.
- d 0.51.

# 36 o/c5 If the construction of equipment is unsuited to the external influences of its location, it should be

- a given a plastic coating
- b given a zinc finish

### c provided with additional protection during erection

d supplied by SELV only.

512.

37 o/c5 A plug and socket-outlet may be used for switching off for mechanical maintenance as long as it does not have aurating exceeding



d 45A

537.3.2.6

38 o/c5 A static type uninterruptible power supply source shall comply with

- a BS3036
- b BS1361
- C BS EN 60898
- d BS EN 62040.

560.6.11

39 oc 5 Unless otherwise confirmed as suitable, switchgear, protective devices and accessories shall not be connected to conductors intended to operate at a temperature in excess of

- a 30 °C
- b 50 °C
- c 70*°C*

d 90 °C.

512.1.2

 $40\ \text{oc}5$  When conductors are identified by numbers, the neutral shall be identified by the number

### a 0

- b 4
- c 5
- d 14.

514.5.4

41 o/c6 A simple method to allow for measured values of loop impedance to be effectively compared with tabulated maximum values is to correct these maximum values by multiplying them by

- a 0.75
- b 0.8
- c 1.2
- d 1.8.

Answer b See Part 6: Inspection and testing, Regulation 612.9, and Appendix 14.

42 o/c 6 - Methods of inspection and testing are described in Guidance Note:

- a 1.
- b 2.



d 4

43 o/c6 - Put the following the following four tests in the order in which they should be carried out: 1- insulation resistance 2 - prospective fault current 3 - polarity 4 - continuity of protective conductors:

### a 4,1,3,2.

- b 2,1,4,3.
- c 3,4,2,1.
- d 2,1,3,4.

# 44 o/c6 Prospective fault current is recorded using the highest value determined from the prospective

a short circuits and earth leakage currents

#### b short circuit and earth fault currents

- c earth leakage and breaking capacity currents
- d breaking capacity and earth fault currents.

#### Answer b

See Part 6: Inspection and testing, Regulation 612.11.

# 45 oc 6 When carrying out a visual inspection of an electrical installation, which one of the following does <u>not</u> have to be verified?

- a The methods of protection against electric shock
- b The electricity supplier
- c The connection of conductors
- d The presence of undervoltage protective devices

# 46 oc6 An insulation resistance test is to be carried out on a 3-phase 400 V circuit. The test voltage and minimum acceptable reading would be

- a 250Va.candO.5MQ
- b 500Vd.c.and0.5MQ

#### c 500Vd.c.and1 MQ

d 800Vd.candO.5Q.

#### 612.3.2 table 61

47 o/c7 - Which one of the following protective measures is not applicable to equipment in Zone 2 of a swimming pool:

- a individual protection by electrical separation.
- b protection by obstacles.
- c SELV.
- d protection by an RCD in accordance with Regulation 415.1.1.

48 o/c7 Within a conducting location with restricted movement, supplies to 110 V mobile equipment must provide protection against electric shock by the use of

### a electrical separation

- b Class II protection
- c obstacles
- d PELV.

Answer a See Part 7: Special installations or locations, Regulation 706.410.3.10.

49 o/c7 The minimum cross sectional area for a cable carrying up to 25A in a caravan shall be:

a 2.5mm2.

#### b 4mm2.

- c 6mm2.
- d 10mm2.

50 o/c 7 - In marinas, equipment installed above a jetty and where it might be subject to water splashes shall have a degree of ingress protection to at least:

#### a IPX4.

- b IPX5.
- c IPX6.
- d IPX7.

51 o/c 7 - If cleaning by use of water jets in a room containing a sauna heater electrical equipment shall have a degree of protection against ingress of at least: a IP5X.

#### b IP X5.

- c IP4X
- d IPX4.

52 o/c 7 - In agricultural premises an RCD may be used for protection against fire. The current rating should not exceed:

- a 30 mA.
- b 100 mA.

#### c 300 mA.

d 500 mA.

53 o/c 7 Overhead conductors in marinas where there is no vehicle movement must be at a height no less than:

- a 2.0m.
- b 2.5m.
- c 3.0m.
- d 35m

54 o/c 7 Any cable intended to supply temporary exhibition structures shall have, at its origin, an RCD having a maximum rated residual operating current of

a 30mA

b 100mA

c 300mA

d 500mA.

#### Answer c

See Part 7: Special installations or locations, Regulation 711.410.3.4.

#### 55 oc7 The requirements of Section 704 of BS 7671 apply to

- a cloakrooms
- b offices

#### c construction and demolition site installations

d toilets.

704.1.1

56 oc 7 For an electric floor heating system in a bathroom, a fine mesh metallic grid is <u>not</u> required to be connected to the protective conductor of the supply circuit if the protective measure used is

#### a SELV

- b electrical separation -
- c a non-conducting location
- d an earth-free equipotential zone.

701.753

58 o/c8 The maximum value of voltage drop for lighting in a low voltage installation supplied from a public distribution system is

### a 3%

b 4%

c 5%

d 6%.

Answer a See Appendices: Appendix 12, Table 12A.

59 oc8. The ambient air temperature rating factor for 90 °C thermosetting cables operating in an ambient air temperature of 60 °C is

a 0.50

b 0.56

c 0.63

d 0.71.

Table 4B1 app4

60A final circuit is the wiring between

- E. supply company's fuse and the energy meter
- F. main switch and the distribution board

- G.
- distribution board and current using equipment supply company's fuse and the remotest outlet point Н.

App15