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

1 o/c 1 - BS 7671 relates to permanent and temporary installations for equipment on:
a marinas.
b ships.
c equipment on aircraft.
d railway traction equipment.

2 Which of the following is listed with the exclusions from the scope at the Regulations:
a. Swimming pools
b. Saunas
c. Highway power supplies and street furniture
d. Suppliers works

3 o/c1 **Which one of the following is <u>not</u> a statutory regulation?**
a Electricity at Work Regulations 1989 as amended
b The Supply of Machinery (Safety) Regulations 1992 as amended
c Requirements for Electrical Installations (BS 7671)
d Agricultural (Stationary Machinery) Regulations

4 **oc1 The selection of the type of wiring and method of installation is not influenced by**
a the nature of the location
b the load current
c the value of the prospective short-circuit current
d the nature of the structure supporting the wiring.

5 o/c 2 An area or temporary structure used for display, marketing or sales is defined as
a a booth
b a stand
c an exhibition
d a show.

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 A corridor containing supporting structures for cables and joints and/or other elements of wiring systems, the dimensions of which allow persons to pass freely throughout the entire length, is known as**

a an access pathway
b a cable tunnel
c an access throughway
d cable ducting.

8 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

9 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.

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 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 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 table 41.1 - All final circuits supplied at 230V and not exceeding 32A shall have a maximum disconnection time not exceeding:
a 0.2s.
b 0.4s.
c 0.8s.
d 5.0s.

21 o/c 4 Which is a method of fault protection
1 out of reach
2 Reinforced insulation
3 Obstacles
4 Insulation of live parts

22 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.

23 Oc4 **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.

24 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 Ω
b 0.34 Ω
c 0.17 Ω
d 0.09 Ω

25 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/c4 Where particular risks of fire exist, the classification for high density occupation areas with easy conditions of evacuation is**

a BD1
b BD2
c BD3
d BD4.

28 o/c 5 A factory requires repairs to a machine. The type of switching to allow this work to go ahead would be switching for:
a mechanical cleaning.
b emergency switching.
c mechanical maintenance.
d functional switching.

29 o/c 5 Barriers and enclosures shall, during erection, be protected against ingress to a minimum of:
a IP1X.
b IP2X.
c IP3X.
d IP4X.

30 o/c 5 - As a means of isolation in a circuit it is NOT permissible to use a:
a luminaire connection device.
b semi-conductor switch.
c fireman's switch.
d plug and socket outlet.

31 o/c 5 - Where electrical conduit is required to be distinguished from a pipeline or another service the colour used to identify it would be:
a red.
b orange.
c blue.
d black.

32 o/c5 **The equipment, design, installation and testing of an electric surface heating system shall be in accordance with**
a BS EN 60898
b BS6217
c BS6351
d BS EN 60417.

33 o/c 5 - In the expression s = √ I2t / k the symbol 'k' represents:
a the fault current.
b a factor applied to conductor materials.
c the minimum size of the cpc.
d the time the fault current exists.

34 o/c5 - Every firepersons switch should be:
a coloured RED with the OFF position at the top.
b coloured BLUE with the OFF position at the top.
c coloured RED with the ON position at the top.
d coloured BLUE with the OFF position at the top.

35 o/c 5 - The maximum height a firepersons switch may be situated above the ground is:
a 2.5 m.
b 2.75 m.
c 3.25 m.
d 3.5 m.

36 o/c 5 531.2.2 - The magnetic circuit of the transformer of an RCD shall enclose:
a all line conductors of the protected circuit.
b all live and earth conductors of the protected circuit.
c neutral and earth conductors of the protected circuit.
d all live conductors of the protected circuit.

37 o/c5 **A permanent label to BS 951 bearing the words 'Safety Electrical Connection-Do Not Remove'is not required at**
a the connection of every earthing conductor to an earth electrode
b the point of connection of every bonding conductor to an extraneous-conductive-part
c the main earth terminal, where separate from the main switchgear
d a main earthing bar contained within switchgear.

38 o/c5 **If an area within an installation undergoes a 10 °C rise in ambient temperature, the effect on the current-carrying capacity of cables will be to**
a decrease the value of I_z
b increase the value of I_z
c leave I_z unchanged
d increase the fault current by 10 per cent.

39 o/c5 **Where an autotransformer is connected to a circuit having a neutral conductor, the common terminal of the winding shall be connected to the**
a neutral conductor
b line conductor
c protective conductor
d bonding conductor.

40 oc5 **A 70 °C thermoplastic insulated and sheathed cable to BS 6004 is installed in an ambient temperature of 25 °C for part of the run and then enters an area at 40 °C. The effect on the cable will be to**

a require clips at greater intervals
b reduce the voltage drop
c increase the bending radius
d decrease its current-carrying capacity.

41 **oc 5 Which one of the following devices would <u>not</u> be suitable to provide overcurrent protection?**

a Residual current device to BS 4293
b Cartridge fuse to BS 1362
c Cartridge fuse to BS 88-6
d Rewirable fuse to BS 3036

42 **oc5 Which of the following is <u>not</u> a BS 7671 requirement when installing a heating cable laid directly in soil?**

a It is completely embedded in the soil
b It does not suffer damage in the event of normal movement
c It complies with the manufacturer's instructions
d It is protected by a 500 mARCD

43 o/c6 **The test voltage and minimum insulation resistance value for a PELV circuit is**

a 250 V, 1 Q
b 500V, 0.5 MQ
c 230V, 1 MQ
d 250V, 0.5 MQ.

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

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

45 o/c 6 - The minimum allowed test value of insulation resistance for a circuit supplied at 230 V is:

a 0.25 MΩ.
b 0.5 MΩ.
c 1.0 MΩ.
d 2.0 MΩ.

46 o/c6 **For SELV and PELV circuits the separation of live parts from those of other circuits must be confirmed by**

a inspection
b measurement
c calculation
d enquiry.

44 **oc6 Certain information must be made available to persons carrying out inspection and testing of an installation before the testing commences. One such item of information would be**
a the name of the client
b the name of the person who designed the installation
c the length of cable runs in the installation
d any circuit or equipment vulnerable to a typical test.

47 **oc6 When an addition is made to an existing installation, the contractor shall record on the Electrical Installation Certificate or the Minor Electrical Installation Works Certificate any**
a changes in ownership
b records of repair over the last five years
c defects in the existing installation
d voltage drop in the longest circuit.

48 o/c 7 - On a construction site a final circuit exceeding 32A and supplied by a TT system shall have a disconnection time not exceeding:
a 0.2 seconds.
b 0.3 seconds.
c 0.8 seconds.
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49 /c7 **Equipment installed on a pontoon located in a marina, which is likely to be subjected to splashes, shall have a degree of protection at least**
a IPX3
b IPX4
c IPX5
d IPX6.

50 o/c 7 Where an electric heating element is embedded in the floor of a bathroom it should be:
a covered by an earthed metal grid.
b buried to a depth not less than 50 mm.
c double insulated.
d supplied from an ELV source.

51 o/c 7 - Which of the following statements regarding Section 740 is incorrect:
a RCDs not exceeding 300mA shall be provided at the origin of the installation.
b The nominal supply voltage shall not exceed 230V/400V a.c.
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53 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.
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54 **o/c7 Local supplementary bonding in a bathroom may be connected**
a near the origin of the installation at the consumer unit
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c to non-metallic water service pipes
d to ceramic bath or shower basins.

55 o/c7 **Which of the following is regarded as a mobile or transportable unit?**
a Mobile generating sets
b Mobile medical services unit
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a 500mA
b 300mA
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57 **oc7 Access to the space under a bath is gained by unscrewing the bath panel retaining clips. This space is classified as**
a zone 0
b zone 1
c outside the zones

d zone 2.

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a red and black.
b red and blue.
c brown and grey.
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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

60 o/c 8 Multicore cables on a perforated tray are covered by reference method:
a A.
b C.
c E.
d G.
answers below

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

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

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a 0.2 second
b 0.4 second
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Answer d See Part 4: Protection for safety, Regulation 411.8.3.

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a automatic when under the supervision of a competent person
b manually operated
c possible only with the use of a key or tool
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c 0.17 Ω
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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

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c BD3
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b orange.
c blue.
d black.

32 o/c5 **The equipment, design, installation and testing of an electric surface heating system shall be in accordance with**
a BS EN 60898
b BS6217
c BS6351
d BS EN 60417.

Answer c See Part5: Selection and erection of equipment, Regulation 554.5.1.

33 o/c 5 - In the expression s = √ I2t / k the symbol 'k' represents:
a the fault current.
b a factor applied to conductor materials.
c the minimum size of the cpc.
d the time the fault current exists.

34 o/c5 - Every firepersons switch should be:
a coloured RED with the OFF position at the top.
b coloured BLUE with the OFF position at the top.
c coloured RED with the ON position at the top.
d coloured BLUE with the OFF position at the top.

35 o/c 5 - The maximum height a firepersons switch may be situated above the ground is:
a 2.5 m.
b 2.75 m.
c 3.25 m.
d 3.5 m.

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a all line conductors of the protected circuit.
b all live and earth conductors of the protected circuit.
c neutral and earth conductors of the protected circuit.
d all live conductors of the protected circuit.

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a the connection of every earthing conductor to an earth electrode
b the point of connection of every bonding conductor to an extraneous-conductive-part
c the main earth terminal, where separate from the main switchgear
d a main earthing bar contained within switchgear.
514.13.1

38 o/c5 **If an area within an installation undergoes a 10 °C rise in ambient temperature, the effect on the current-carrying capacity of cables will be to**
a decrease the value of I_z
b increase the value of I_z
c leave I_z unchanged
d increase the fault current by 10 per cent.

39 o/c5 **Where an autotransformer is connected to a circuit having a neutral conductor, the common terminal of the winding shall be connected to the**

a neutral conductor
b line conductor
c protective conductor
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555.1.1

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b reduce the voltage drop
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Table 4B1

41 **oc 5 Which one of the following devices would <u>not</u> be suitable to provide overcurrent protection?**

a Residual current device to BS 4293
b Cartridge fuse to BS 1362
c Cartridge fuse to BS 88-6
d Rewirable fuse to BS 3036

part 2 def

42 **oc5 Which of the following is <u>not</u> a BS 7671 requirement when installing a heating cable laid directly in soil?**

a It is completely embedded in the soil
b It does not suffer damage in the event of normal movement
c It complies with the manufacturer's instructions
d It is protected by a 500 mARCD

554.4.3

43 o/c6 **The test voltage and minimum insulation resistance value for a PELV circuit is**

a 250 V, 1 Q
b 500V, 0.5 MQ
c 230V, 1 MQ
d 250V, 0.5 MQ.

Answer d>See Part 6: Inspection and testing, Regulation 612.3.2, Table 61.

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

a 1.
b 2.

c 3.
d 4.

45 o/c 6 - The minimum allowed test value of insulation resistance for a circuit supplied at 230 V is:
a 0.25 MΩ.
b 0.5 MΩ.
c 1.0 MΩ.
d 2.0 MΩ.

46 o/c6 **For SELV and PELV circuits the separation of live parts from those of other circuits must be confirmed by**
a inspection
b measurement
c calculation
d enquiry.
Answer b
See Part 6: Inspection and testing, Regulations 612.4.1 and 612.4.2.

44 **oc6 Certain information must be made available to persons carrying out inspection and testing of an installation before the testing commences. One such item of information would be**
a the name of the client
b the name of the person who designed the installation
c the length of cable runs in the installation
d any circuit or equipment vulnerable to a typical test.

610.2 514.9.1

47 **oc6 When an addition is made to an existing installation, the contractor shall record on the Electrical Installation Certificate or the Minor Electrical Installation Works Certificate any**
a changes in ownership
b records of repair over the last five years
c defects in the existing installation
d voltage drop in the longest circuit.
633.2

48 o/c 7 - On a construction site a final circuit exceeding 32A and supplied by a TT system shall have a disconnection time not exceeding:
a 0.2 seconds.
b 0.3 seconds.
c 0.8 seconds.
d 1.0 seconds.

49 /c7 **Equipment installed on a pontoon located in a marina, which is likely to be subjected to splashes, shall have a degree of protection at least**

a IPX3
b IPX4
c IPX5
d IPX6.

Answer b See Part 7: Special installations or locations, Regulation 709.512.2.1.1.

50 o/c 7 Where an electric heating element is embedded in the floor of a bathroom it should be:

a covered by an earthed metal grid.
b buried to a depth not less than 50 mm.
c double insulated.
d supplied from an ELV source.

51 o/c 7 - Which of the following statements regarding Section 740 is incorrect:

a RCDs not exceeding 300mA shall be provided at the origin of the installation.
b The nominal supply voltage shall not exceed 230V/400V a.c.
c RCDs are not required for circuits protected by electrical separation.
d RCDs are required to protect socket-outlets rated greater than 32A.

52 o/c7 - Which of the following statements regarding section 740 is incorrect:

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d RCDs are not required for circuits protected by electrical separation.

53 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.

54 **o/c7 Local supplementary bonding in a bathroom may be connected**

a near the origin of the installation at the consumer unit
b close to the entry of extraneous-conductive-parts to the room
c to non-metallic water service pipes
d to ceramic bath or shower basins.

Answer b ***"**

See Part 7: Special installations or locations, Regulation 701.415.2.

55 o/c7 **Which of the following is regarded as a mobile or transportable unit?**

a Mobile generating sets
b Mobile medical services unit
c Motor caravan
d Mobile machinery

Answer b

See Part7: Special installations or locations, Regulation 717.1.

56 **oc7 In locations where livestock is kept, for all circuits other than socket-outlet circuits, an RCD shall be provided with a rating not exceeding**

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

705.411.1

57 **oc7 Access to the space under a bath is gained by unscrewing the bath panel retaining clips. This space is classified as**

a zone 0
b zone 1
c outside the zones
d zone 2.

701.32.3

58 o/c 8 app7 - The positive and negative conductors in two-wire unearthed d.c. power circuits are identified by the colours:

a red and black.
b red and blue.
c brown and grey.
d brown and black.

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

60 o/c 8 Multicore cables on a perforated tray are covered by reference method:

a A.
b C.
c E.
d G.