

ELECTRICAL INSTALLATION AND DRAWING-1192 - 1

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Started on	Monday, 11 May 2020, 2:01 PM
State	Finished
Completed on	Monday, 11 May 2020, 2:19 PM
Time taken	17 mins 53 secs
Grade	19.00 out of 25.00 (76%)

Question 1

Correct
Mark 1.00 out of 1.00

Flag question

The speed of operation of the protection device is important and depends on the magnitude of fault current, which in turn depends on the impedance of the earth fault loop.

Select one:

- True ✓
 False

The correct answer is 'True'.

Question 2

Correct
Mark 2.00 out of 2.00

Flag question

Miniature Circuit Breakers (MCBs)

Select one:

- a. deteriorate after long usage.
 b. cannot provide any degree of discrimination.
 c. cannot be rest after tripping.
 d. are very accurate and fast. ✓

Your answer is correct.

The correct answer is: are very accurate and fast.

Question 3

Correct
Mark 1.00 out of 1.00

Flag question

Measuring the impedance of the external installations, Z_e , (using a phase-to-earth loop impedance tester) from the supply intake position of an adjacent building having a service cable of a similar size and length to that is proposed is considered the most realistic method.

Select one:

- True ✓
 False

The correct answer is 'True'.

Quiz navigation

1172612-Sara Natour

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✓	✗	✓	✓	✓	✓	✓	✓

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Finish review

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Go to Settings to activate Windows.

Activate Windows

Go to Settings to activate Windows.

Question 4

Correct

Mark 1.00 out of 1.00

Flag question

An over-current is any current greater than the rated current of a circuit. An over-current only occurs by short circuits.

Select one:

- True
- False ✓

The correct answer is 'False'.

Question 5

Correct

Mark 2.00 out of 2.00

Flag question

Rodes or Electrodes

Select one:

- a. have their resistance increasing with distance, from the point of installation, until a point is reached of about 2.5m to 3m. ✓
- b. are made of Aluminium or steel.
- c. must have their heads clear above the ground when they are installed.
- d. are of 0.5 to 1m long, and of 16-19 mm diameter.

Your answer is correct.

The correct answer is: have their resistance increasing with distance, from the point of installation, until a point is reached of about 2.5m to 3m.

Question 6

Correct

Mark 1.00 out of 1.00

Flag question

Typically, for residential installations the RCD has a rated residual operating current ($I_{\Delta n}$) \leq 50mA, and an operating time not exceeding 40ms at 150mA.

Select one:

- True
- False ✓

The correct answer is 'False'.

Question 7

Incorrect

Mark 0.00 out of 2.00

Flag question

Coordination between conductors and protection

Select one:

- a. is not achieved when the nominal current is greater than the lowest Current-Carrying Capacity (I_z) of any conductor.
- b. is not achieved when the Nominal current is greater than or equal to the Design current of the circuit.
- c. is not achieved when the operating current of the device is less than or equal to $1.45I_z$; I_z is Current-Carrying Capacity of any conductor. ✗

Your answer is incorrect.

The correct answer is: is not achieved when the nominal current is greater than the lowest Current-Carrying Capacity (I_z) of any conductor.

Question 8

Incorrect

Mark 0.00 out of 2.00

Flag question

Discrimination between several series protective devices

Select one:

- a. is achieved if the Total Let-through Energy of the major Fuse (or protective device) does not exceed the Pre-arcing Let-through Energy of the minor Fuse (or protective device). ✗
- b. is achieved when the design allows the Fuse (or other protective device) electrically closest to the source, and furthest to fault, to blow (trip).
- c. is achieved when the arrangement of the protective devices such that they isolate the correct and faulty part of the circuit only.

Your answer is incorrect.

The correct answer is: is achieved when the arrangement of the protective devices such that they isolate the correct and faulty part of the circuit only.

Question 9

Correct

Mark 2.00 out of 2.00

Flag question

A Cartridge Fuse

Select one:

- a. is cheaper than a rewirable fuse.
- b. is not accurate.
- c. does not have an arc when interrupting faults. ✓
- d. has its fusing element affected by long usage or weather conditions.

Your answer is correct.

The correct answer is: does not have an arc when interrupting faults.

Question 10

Incorrect

Mark 0.00 out of 2.00

Flag question

The cross sectional area of the circuit protective conductor

Select one:

- a. is half the area of the phase conductor, when the phase conductor's area is greater than 35mm-square.
- b. is half the area of the phase conductor, when the phase conductor's area (Aph) is $16 < A_{ph} < 35$ mm-square. ✗
- c. is half the area of the phase conductor, when the phase conductor's area is less than 16mm-square.

Your answer is incorrect.

The correct answer is: is half the area of the phase conductor, when the phase conductor's area is greater than 35mm-square.

Question 11

Correct

Mark 1.00 out of 1.00

Flag question

Earthed Equipotential Bonding ensures that, all metallic parts are joined together (bonded) and connected to earth, this ensures that all the metal works are in a healthy situation and are at/or near zero volts.

Select one:

- True ✓
- False

The correct answer is 'True'.

Question 12

Correct

Mark 2.00 out of 2.00

Flag question

In a TN-S earthing system,

Select one:

- a. the star (neutral) point is connected to earth and to the metal sheaths of distribution and service cables. The outer cable sheath is used as a neutral conductor; i.e. combined earth and neutral (Protective Earth Neutral (PEN)). However, inside consumer's premises, the system has separate earth and neutral conductors.
- b. is also known as Protective Multiple Earthing (PME).
- c. the star (neutral) point of the supply (secondary of distribution transformer) is directly connected to earth, and the earthing of consumer's installations is directly connected to earth.
- d. the star (neutral) point of the supply transformer is connected to earth. The outer metallic sheaths of the distribution cable, and the service cable, are connected to the star point and supply the customer's earth. ✓

Your answer is correct.

The correct answer is: the star (neutral) point of the supply transformer is connected to earth. The outer metallic sheaths of the distribution cable, and the service cable, are connected to the star point and supply the customer's earth.

Question 13

Correct

Mark 2.00 out of 2.00

Flag question

A High Rupturing Capacity Fuse

Select one:

- a. deteriorates after long usage.
- b. cannot discriminate between a starting (or surge) motor current and an overload current.
- c. is appropriate for protecting motor circuits and industrial installations. ✓
- d. is not fast or accurate.

Your answer is correct.

The correct answer is: is appropriate for protecting motor circuits and industrial installations.

Question 14

Correct

Mark 1.00 out of 1.00

Flag question

The Operating current of a protective device is the minimum current causing a Fuse to blow or a Circuit Breaker to trip.

Select one:

- True ✓
- False

The correct answer is 'True'.

Question 15

Correct

Mark 2.00 out of 2.00

Flag question

The Test Push Button in an RCD

Select one:

- a. , when pressed, emulates a short circuit current greater than 25A.
- b. , when pressed, makes the current to bypass the neutral coil, wrapped around the RCD's core, but the current passes through the phase coil.
- c. is connected, in series with a resistor, between the input phase-port and output neutral-port. ✓
- d. , when pressed, allows the phase current to pass through the search coil.

Your answer is correct.

The correct answer is: is connected, in series with a resistor, between the input phase-port and output neutral-port.

Question 16

Correct

Mark 1.00 out of 1.00

Flag question

The Nominal current rating (I_n) of an MCB is defined as the current that can be carried indefinitely by the device.

Select one:

- True ✓
- False

The correct answer is 'True'.

Finish review