



City & Guilds Level 3 Technical Occupational Entry in Electrical Installations (Diploma) (2366-03)

Version 1.1 (July 2025)

Sample MCQ 2366-352
**Sample paper, multiple choice answer sheet and mark
scheme**

Version and date	Change detail	Section
1.0 September 2024	Initial version	All
1.1 July 2025	Required materials: removal of the IET On-Site guide	Section 1

SAMPLE

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SAMPLE

1 Introduction

Area	Description
What is in this document	This document contains the sample MCQ test, answer sheet and mark scheme for MCQ 352 test.

Documents included:	<ul style="list-style-type: none">• Sample questions• Multiple choice answer sheet• Mark scheme <p>Learners should be provided with the sample questions and the answer sheet.</p> <p>The mark scheme is to be used by training providers to mark the completed tests.</p>
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Note to centres, this sample paper-based version of the multiple-choice test is to support formative assessment activities.

For live versions of the multiple-choice test, these will be accessed using City & Guilds evolve online system. Please refer to the qualification handbook for details on how to book and administer live tests.

Test duration: 2 hours

You should have the following for this test:

- A pen with black or blue ink
- Multiple-choice questions answer sheets
- Non-programmable calculator
- BS 7671

Read the following notes before you answer any questions:

- Attempt all questions
- If you find a question difficult, leave it and return to it later

This paper contains 60 multiple choice questions worth 1 mark each

This question paper is the property of City & Guilds

How to complete the multiple-choice answer sheet

Each multiple-choice question shows four possible answers (lettered 'a', 'b', 'c', 'd'); only one is correct.

Decide which one is correct and mark your answer on the answer sheet with your pen.

For example, if you decide 'b' is correct, mark your answer with a cross like this:

1 a b c d

If you change your answer, cancel your first choice by filling in the box then put a cross in the answer which you have now decided is correct, like this:

1 a b c d

Q9	Which is a requirement where an installation is divided into circuits? <p style="text-align: right;">(1 mark)</p>
Mark Scheme	Answers a) Each circuit line conductor must be electrically connected together. b) Split way boards must have lighting and power on separate RCDs. c) Faults to earth shall only disconnect a single protective device. d) Each circuit must be connected to a separate way in a DB.
Qual spec reference	LO3

Q10	What is not a general category of external influence? <p style="text-align: right;">(1 mark)</p>
Mark Scheme	Answers a) Contamination. b) Environment. c) Utilisation. d) Building.
Qual spec reference	LO3

Q17	<p>What must a main switch isolate when considering the protection for safety of ordinary persons in a single-phase domestic installation?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>Answers</p> <p>a) Line conductor only.</p> <p>b) Line and earth conductors.</p> <p>c) Line and neutral conductors.</p> <p>d) Line, neutral and earth conductors.</p>
Qual spec reference	LO4

Q18	<p>A metallic installation gas pipe is connected to a gas meter which in turn is supplied by a plastic gas supply pipe. The metal installation pipe runs along an internal brick wall to supply a boiler and cooker in a kitchen.</p> <p>What are the requirements for bonding this metal gas installation pipe?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>Answers</p> <p>a) It must be connected to a main protective bonding conductor near the meter.</p> <p>b) It must be connected to a supplementary equipotential bonding conductor.</p> <p>c) It does not require any bonding connection as it is not extraneous.</p> <p>d) It does not require any bonding but must be directly connected to a cpc.</p>
Qual spec reference	LO4

Q25	<p>A circuit is wired using 6 mm² 70 °C thermoplastic insulated copper live conductors and is subjected to a short circuit current of 290 A.</p> <p>What is the approximate duration, in seconds, where the insulation will raise to its limiting temperature?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>Answers</p> <p>a) 2.37 seconds.</p> <p>b) 4.54 seconds.</p> <p>c) 5.66 seconds.</p> <p>d) 8.37 seconds.</p>
Qual spec reference	LO4





Q26	<p>An earthing busbar needs to be selected to satisfy the requirements for the earthing of information and communications technology installations for functional purposes.</p> <p>What is the minimum csa of the earthing busbar if the supply to the installation exceeds 200 A per phase when considering the effects of EMI?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>Answers</p> <p>a) 10 mm²</p> <p>b) 25 mm²</p> <p>c) 50 mm²</p> <p>d) 40 mm²</p>
Qual spec reference	LO4

Q27	<p>What should a device be capable of, when used to switch off for mechanical maintenance, if the device is not constantly supervised during maintenance work?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>Answers</p> <p>a) Being secured in the on position.</p> <p>b) Giving an audible alarm if activated.</p> <p>c) Giving a visible warning if activated.</p> <p>d) Being secured in the off position.</p>
Qual spec reference	LO4

Q28	<p>An item of equipment is to be installed and, although it complies with foreign national standards, it does not carry an applicable British Standard.</p> <p>What standards should the foreign standards be based on in order to consider compliance with relevant standards?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>Answers</p> <p>a) IEC.</p> <p>b) NIC.</p> <p>c) EIC.</p> <p>d) BSI.</p>
Qual spec reference	LO5

Q31	What situation permits omission of identification by colour or marking of cables? <p style="text-align: right;">(1 mark)</p>
Mark Scheme	Answers a) MICC cable cores used as line or neutral conductors. b) Metal sheath of cables used as a protective conductor. c) Incoming line conductors at the origin of an installation. d) Neutral conductors within a steel-wire-armour cable.
Qual spec reference	LO5

Q32	What is the minimum permissible level of IP protection provided by a trunking system for the protection of non-sheathed circuit cables? <p style="text-align: right;">(1 mark)</p>
Mark Scheme	Answers a) IP2X b) IP3X c) IP4X d) IP5X
Qual spec reference	LO5

Q33	<p>What symbol should be displayed on a non-accessible electrical connection designated to be maintenance free?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>Answers</p> <p>a)</p>  <p>b)</p>  <p>c)</p>  <p>d)</p> 
Qual spec reference	LO5

Q34	<p>What is the maximum distance from a corner, formed by two walls, that a concealed cable can be installed to a depth less than 50 mm without further earthed metallic, mechanical protection?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>Answers</p> <p>a) 150 mm</p> <p>b) 100 mm</p> <p>c) 50 mm</p> <p>d) 25 mm</p>
Qual spec reference	LO5

Q43	<p>An RCD is relied upon for providing ADS on a circuit forming part of a TN system.</p> <p>What is the maximum disconnection time for the non-delayed type RCD for it to be verified as effective when tested at $1 \times I_{\Delta N}$?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>Answers</p> <p>a) 130 ms</p> <p>b) 300 ms</p> <p>c) 400 ms</p> <p>d) 5000 ms</p>
Qual spec reference	LO6

Q44	<p>Which is the correct approach that shall be followed when undertaking a periodic inspection?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>Answers</p> <p>a) Fully dismantled to check all parts and connections.</p> <p>b) Without dismantling or partial where required.</p> <p>c) Without dismantling and remotely from site.</p> <p>d) Partially dismantled but fully operational.</p>
Qual spec reference	LO6

Q45	Why should continuity testing be undertaken before insulation resistance testing during an initial verification of a lighting circuit within a small commercial unit? <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>Answers</p> <p>a) The continuity test may damage the insulation of the conductors, so the insulation needs to be verified after to make sure it remains effective.</p> <p>b) The continuity needs to be checked first as a circuit with a high resistance will lose too many volts during the insulation resistance test.</p> <p>c) The circuit must be continuous to test the insulation between conductors throughout the circuit or installation.</p> <p>d) The high voltage used during the insulation testing may cause a dangerous shock risk.</p>
Qual spec reference	LO6

Q46	What is the distance that zone 2 extends to from the edge of zone 1 in a bathroom? <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>Answers</p> <p>a) 2.50 m</p> <p>b) 2.25 m</p> <p>c) 1.20 m</p> <p>d) 0.60 m</p>
Qual spec reference	LO7

Q55	What does EEMS stand for when considering a prosumer's electrical installation (PEI)? <p style="text-align: right;">(1 mark)</p>
Mark Scheme	Answers a) Electrical Energy Monitor Service. b) Electrical Emergency Metering System. c) Electrical Emergency Mobility Service. d) Electrical Energy Management System.
Qual spec reference	LO8

Q56	Which appendix of BS 7671 allows the referencing of British Standards? <p style="text-align: right;">(1 mark)</p>
Mark Scheme	Answers a) 1 b) 5 c) 9 d) 11
Qual spec reference	LO8

Q59	<p>A thermoplastic insulated and sheathed cable is installed as method 102 and the cable has a length of 27 m. The circuit is wired using 4.0 mm² copper conductors and the circuit is protected by a 32 A Type B circuit breaker due to the 23 A design current.</p> <p>What is the voltage drop for this circuit?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>Answers</p> <p>a) 11.17 V</p> <p>b) 9.50 V</p> <p>c) 6.83 V</p> <p>d) 3.50 V</p>
Qual spec reference	LO8

Q60	<p>What should a single-phase value of prospective fault current be multiplied by to give a suitable approximation of a fault between all three-phases?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>Answers</p> <p>a) 0.5</p> <p>b) 0.8</p> <p>c) 1.0</p> <p>d) 2.0</p>
Qual spec reference	LO8

3 2366-352 Multiple choice answer sheet

Candidate Name:

Date of Test: Click or tap to enter a date.

1	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
2	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
3	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
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58	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
59	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
60	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>

Number of correct answers: / 60

4 2366-352 Mark scheme

Grading

Pass – 60%

Question Number	Key	Question Number	Key
1	b	16	c
2	d	17	c
3	c	18	c
4	a	19	b
5	c	20	c
6	c	21	d
7	b	22	b
8	a	23	a
9	d	24	b
10	a	25	c
11	a	26	c
12	a	27	d
13	b	28	a
14	b	29	b
15	d	30	b

Question Number	Key	Question Number	Key
31	b	46	d
32	c	47	a
33	a	48	d
34	a	49	b
35	b	50	c
36	c	51	b
37	c	52	c
38	c	53	d
39	c	54	b
40	a	55	d
41	b	56	a
42	b	57	c
43	b	58	a
44	b	59	c
45	c	60	d

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City & Guilds

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We partner with our customers to deliver work-based learning programmes that build competency to support better prospects for people, organisations and wider society. We create flexible learning pathways that support lifelong employability because we believe that people deserve the opportunity to (re)train and (re)learn again and again – gaining new skills at every stage of life, regardless of where they start.

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