



Understand the requirements for electrical installations BS 7671:2018 (Amendment 4:2026) (2382-22)

Version 1.0 (April 2026)

**Sample MCQ 626
Sample paper, multiple choice answer sheet and
mark scheme**

Version and date	Change detail	Section
1.0 April 2026	Initial version	All

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Introduction

Area	Description
What is in this document	This document contains the sample MCQ test, answer sheet and mark scheme for MCQ 626 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>

Note to centres, this paper-based sample is to support formative assessment activities.

For live versions of the multiple-choice test, these will be accessed using City & Guilds e-volve online system.

1 2382-626 MCQ (sample questions)

Test duration: 60 minutes

You should have the following for this test:

- A pen with black or blue ink
- Multiple-choice questions answer sheets
- BS 7671:2018

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

Q18	<p>A premises has a plastic incoming gas supply pipe which is then connected to copper pipework to distribute gas to a cooker.</p> <p>What are the requirements for bonding this metallic gas installation pipework?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>a) It must always be connected to a main protective bonding conductor near the meter.</p> <p>b) It must be connected to a supplementary equipotential bonding conductor in the kitchen.</p> <p>c) It would not require any bonding connection if it is not an extraneous-conductive-part.</p> <p>d) It does not require any bonding but must be directly connected to a circuit protective conductor.</p>
Qual spec reference	4.2

Q19	<p>What is the maximum disconnection time for a 20 A final circuit, forming part of a TT system, where disconnection is achieved by an overcurrent protective device, and the requirements of 411.3.1.2 are met?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>a) 0.2 seconds</p> <p>b) 0.4 seconds</p> <p>c) 1.0 second</p> <p>d) 5.0 seconds</p>
Qual spec reference	4.2

Q20	<p>A distribution circuit, forming part of a TN system, is protected by a 20 A fuse conforming to BS 88-2.</p> <p>What is the maximum earth fault loop impedance for this distribution circuit?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>a) 1.68 Ω</p> <p>b) 1.93 Ω</p> <p>c) 2.80 Ω</p> <p>d) 3.64 Ω</p>
Qual spec reference	4.2

Q24	<p>Ten socket-outlets conforming to BS 1363 are to be supplied via a ring final circuit, protected by a 32 A RCBO conforming to BS EN 61009.</p> <p>What is the minimum current carrying capacity (I_z) for each conductor in this circuit?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>a) 16 A</p> <p>b) 20 A</p> <p>c) 26 A</p> <p>d) 32 A</p>
Qual spec reference	4.2

Q25	<p>A circuit, wired using 6 mm² 70 °C thermoplastic insulated copper live conductors, is subjected to a short circuit current of 290 A.</p> <p>What is the approximate time, in seconds, before the insulation will reach its limiting temperature?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>a) 2.51 seconds</p> <p>b) 3.89 seconds</p> <p>c) 5.66 seconds</p> <p>d) 8.75 seconds</p>
Qual spec reference	4.2

Q26	<p>A busbar needs to be selected to satisfy the requirements for the earthing of information and communications technology installations for functional purposes. The supply to the installation is 250 A per phase.</p> <p>What is the minimum cross-sectional area of the earthing busbar when considering the effects of electromagnetic interference?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>a) 10 mm²</p> <p>b) 25 mm²</p> <p>c) 50 mm²</p> <p>d) 60 mm²</p>
Qual spec reference	4.2

Q27	<p>An isolator is to be used to switch-off a piece of machinery for mechanical maintenance.</p> <p>What must the isolator be capable of if it cannot be constantly supervised by the person carrying out this maintenance work?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>a) Being secured in the closed 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 open position.</p>
Qual spec reference	4.2

Q28	<p>An item of equipment is to be installed which complies with a foreign national standard and is identified with an IEC number.</p>
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	Which is the correct statement in relation to compliance with corresponding British or Harmonized Standards? <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>a) The designer must confirm any differences do not result in a lower degree of safety.</p> <p>b) The designer must confirm any differences do not result in a higher degree of safety.</p> <p>c) The manufacturer must confirm any differences do not result in a lower degree of safety.</p> <p>d) The manufacturer must confirm any differences do not result in a higher degree of safety.</p>
Qual spec reference	5.1





Q29	What colour is used to identify an L+ conductor in a two-wire DC circuit? <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>a) Brown.</p> <p>b) Red.</p> <p>c) White.</p> <p>d) Blue.</p>
Qual spec reference	5.1

Q30	What is the frequency, for checking the operation of an RCD test button, to be displayed on an RCD instruction notice? <p style="text-align: right;">(1 mark)</p>
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Mark Scheme	<p>a) Every three months.</p> <p>b) Every six months.</p> <p>c) Every 12 months.</p> <p>d) Every 24 months.</p>
Qual spec reference	5.2

Q31	<p>Which arrangement allows the omission of identification by colour or marking?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>a) MICCC cable cores used as line or neutral conductors.</p> <p>b) Metal sheath of cables used as a protective conductor.</p> <p>c) Incoming live conductors at the origin of an installation.</p> <p>d) Neutral conductors within a steel-wire-armor cable.</p>
Qual spec reference	5.2

Q32	<p>What is the minimum level of protection to be provided by a trunking system which is housing non-sheathed 230 V cables?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>a) IP2X</p> <p>b) IP3X</p> <p>c) IP4X</p> <p>d) IP5X</p>
Qual spec reference	5.2

Q33	<p>What symbol must be displayed on an electrical junction box to allow installation in a position which will be non-accessible?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>a) </p> <p>b) </p> <p>c) </p> <p>d) </p>
Qual spec reference	5.2

Q34	<p>A non-armoured low-voltage cable is to be installed in a prescribed zone, concealed in a wall, at a depth of less than 50 mm from the surface.</p> <p>What is the maximum distance from the top of the wall, that the cable can be installed within, for protection against impact?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>a) 150 mm</p> <p>b) 125 mm</p> <p>c) 100 mm</p> <p>d) 75 mm</p>
Qual spec reference	5.2

Q35	<p>An AFDD conforming to BS EN 62606 is to be installed for the protection against the risk of fire.</p> <p>Where should the AFDD be installed?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>a) At the origin of the circuit.</p> <p>b) At any potential loose connection.</p> <p>c) Before the metering for the installation.</p> <p>d) After a fused connection unit supplying equipment.</p>
Qual spec reference	5.2

Q36	<p>Which type of circuit may permit the use of a Type AC RCD?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>a) A circuit supplying portable equipment having DC components.</p> <p>b) A circuit supplying PV installations circuits prior to the inverter.</p> <p>c) A circuit supplying fixed equipment having no DC components.</p> <p>d) A circuit supplying auxiliary circuits fed via a bridge rectifier.</p>
Qual spec reference	5.2

Q37	<p>The steel armouring of a 90 °C thermosetting insulated SWA cable is to form a circuit protective conductor.</p> <p>What is the value of k to be used when verifying the CSA of the armouring in relation to Earth fault thermal constraints?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>a) 23</p> <p>b) 46</p> <p>c) 51</p> <p>d) 85</p>
Qual spec reference	5.2

Q38	<p>What is the minimum CSA of a main protective bonding conductor, where required, for an installation forming part of a TN-C-S (PME) earthing system where the supply PEN conductor is 70 mm²?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>a) 10 mm²</p> <p>b) 16 mm²</p> <p>c) 25 mm²</p> <p>d) 35 mm²</p>
Qual spec reference	5.2

Q59	<p>A 27 m radial circuit is wired using 4.0 mm² 70 °C thermoplastic insulated and sheathed flat cable. The circuit is protected by a 32 A Type B circuit-breaker conforming to BS EN 60898 and has a 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>a) 11.17 V</p> <p>b) 9.50 V</p> <p>c) 6.83 V</p> <p>d) 4.53 V</p>
Qual spec reference	8.3

Q60	<p>A prospective fault current test has been undertaken at the origin of a three-phase installation, using a single-phase PFC tester.</p> <p>What would be the correct multiplier to convert this value to approximate the magnitude of a simultaneous fault between all three line-conductors?</p> <p style="text-align: right;">(1 mark)</p>
Mark Scheme	<p>a) 0.8</p> <p>b) 1.7</p> <p>c) 2.0</p> <p>d) 3.0</p>
Qual spec reference	8.3

3 2382-626 Multiple choice answer sheet

Candidate Name:

Date of test:

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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38	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>
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60	a <input type="checkbox"/>	b <input type="checkbox"/>	c <input type="checkbox"/>	d <input type="checkbox"/>

Number of correct answers: / 60

4 2382-626 Mark scheme

Grading

Pass – 36

Fail – 35

Question Number	Key	Question Number	Key
1	B	31	B
2	D	32	C
3	B	33	A
4	A	34	A
5	A	35	A
6	C	36	C
7	B	37	B
8	A	38	C
9	D	39	C
10	A	40	A
11	A	41	B
12	A	42	B
13	A	43	B
14	B	44	B
15	D	45	C
16	D	46	D
17	B	47	C
18	C	48	D
19	B	49	B
20	C	50	C
21	C	51	A
22	B	52	C
23	A	53	D
24	B	54	B
25	C	55	D
26	C	56	A
27	D	57	C
28	A	58	A
29	B	59	C
30	B	60	C