

The following document contains example questions, provided to familiarise you with the types of questions and answer formats that you will find in your examination. You won't be asked the same questions in the real exam.

The online certifying examinations are computer-based and consist of 65 - 70 questions. There are different marks for different questions with a total of 100 marks in the exams. 75% of the marks will be for questions answered electronically, and 25% of the marks will be for questions answered manually on pre-printed answer sheets provided at the time of your exam.

The exams consist of a range of question types for the computer-based section, including:

- Multiple choice/single choice (one correct answer from a range of possible answers)
- Inline (select a word/phrase to complete a statement)
- Numerical
- Multi-select (select the number of correct answer options)

The paper-based questions will require the candidate to either write an answer or draw, design or fill in answers on a diagram provided on the answer sheet.

The exam lasts for two and a half hours.

Reference materials will be supplied to candidates as a PDF within the exam, if you require hard copies of the codes and standards when sitting your exam, you will need to apply for special conditions with PGDB prior to booking your exam with Aspeq.

When will I receive my results?

Due to the manual paper-based answers, the exam is sent to a marker for manual marking. This process takes 10 working days to complete.

Can I sit the examination as many times as I need?

Yes. Once you receive your mark, you can book your second attempt as early as the next available sitting. After a failed second attempt, a three-month stand-down period will be enforced.

aspeq™

beyond™
question

PGDB Mock Exam

🕒 180 minutes



John Snow

JD001

Your assessment is now ready, please wait for the invigilator's signal before pressing Start Assessment.

Start

Quadrant v6.8.0-tags-6-8-0-beta.1.

Copyright @ 2014-2024 Aspeq Limited.

John Snow

Candidate Instructions

You must read all instructions and accept any agreements before starting your exam.

This exam consists of multiple parts. The parts can be answered in any order of your preference.

Please refer to the exam instruction leaflet for guidance on navigating the different parts.

Start

← Previous

Instruction





Next →

For the Design section, please use the answer sheets provided by the invigilator to answer the questions. These answer sheets are coded to match your question, therefore no extra answer sheets will be given.

1. Ensure you are using the correct answer sheets for the question you are answering. Clearly write the question number on the page.
2. Where illustration of diagrams are required, please ensure your drawing is clear and readable.
3. Do not write or mark above the header line at the top of each answer sheet.
4. Do not write on or mark the back of the answer sheets.
5. Return all answer sheets and working papers to the invigilator at the end of the examination.

It is crucial to follow the above instructions to ensure that each answer sheet can be properly read and scanned for accurate marking.

Reference Materials

-  G12 Water Supplies.pdf
-  E1 Surface Water (1)
-  ASNZS5601.2-2020+A1
-  ASNZS3500.2-2021+A1

Questions

5. Design



Design - L3 (5 marks)

1

Design - L3 (10 marks)

2

1. Health and Safety

Health and Safety - L1

3

2. Foul Water Systems

Foul Water - L1 and L2

4

5

3. Gasfitting Systems

Gasfitting- L3

6

Gasfitting - L1

7

4. Stormwater Systems

Stormwater - L2

8

Legend

[← Previous](#)

Question 1 / 8 (5 marks)

[🗨](#)[📌](#)[Next →](#)

Reference Materials

-  G12 Water Supplies.pdf
-  E1 Surface Water (1)
-  AS/NZS55601.2-2020+A1
-  AS/NZS3500.2-2021+A1

Questions

5. Design

1

Design - L3 (5 marks)

1

Design - L3 (10 marks)

2

1. Health and Safety

Health and Safety - L1

3

2. Foul Water Systems

Foul Water - L1 and L2

4

5

3. Gasfitting Systems

Gasfitting - L3

6

Gasfitting - L1

7

4. Stormwater Systems

Stormwater - L2

8

Legend

[Answered](#) [Unanswered](#) [Instructions read](#) [Unread](#)[🗨 Comment on the question](#)[📌 Bookmark the question for later](#)[➤ Hide the assessment sidebar](#)

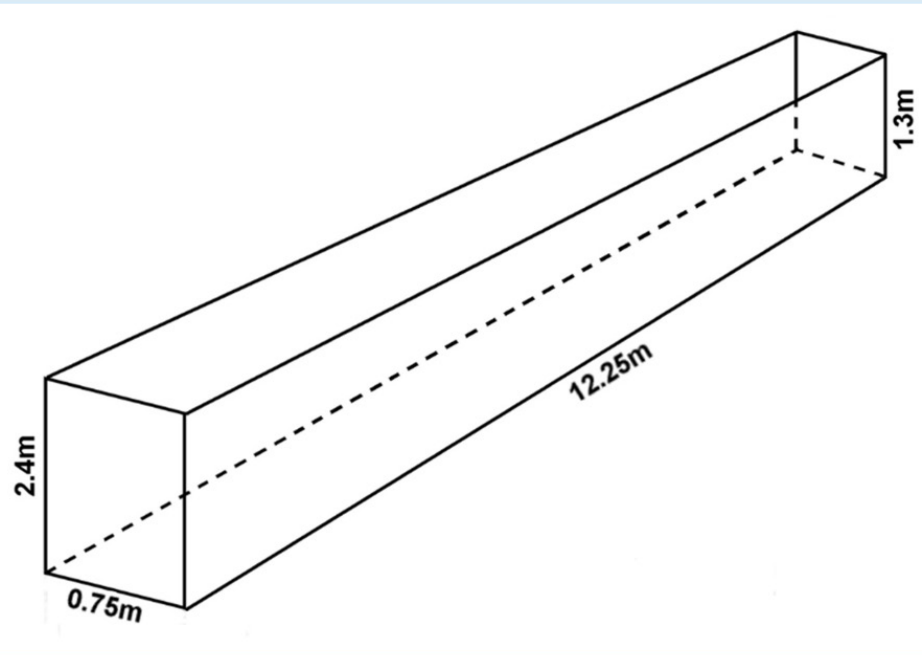
Click on any image or diagram to enlarge it. Use Ctrl + mouse wheel to zoom in and out. When zooming into images or diagrams, pan using the mouse, click to lock the position in place.

The excavation in the diagram is full of water.

The excavation is 12.25 m long, 0.75 m wide, 1.3 m deep at the shallow end and 2.4 m at the deep end.

A dewatering pump has a discharge rate of 50 litres/minute.

Calculate the time required to dewater the excavation using this pump.



[Write your answer on the supplied paper titled Q1](#)



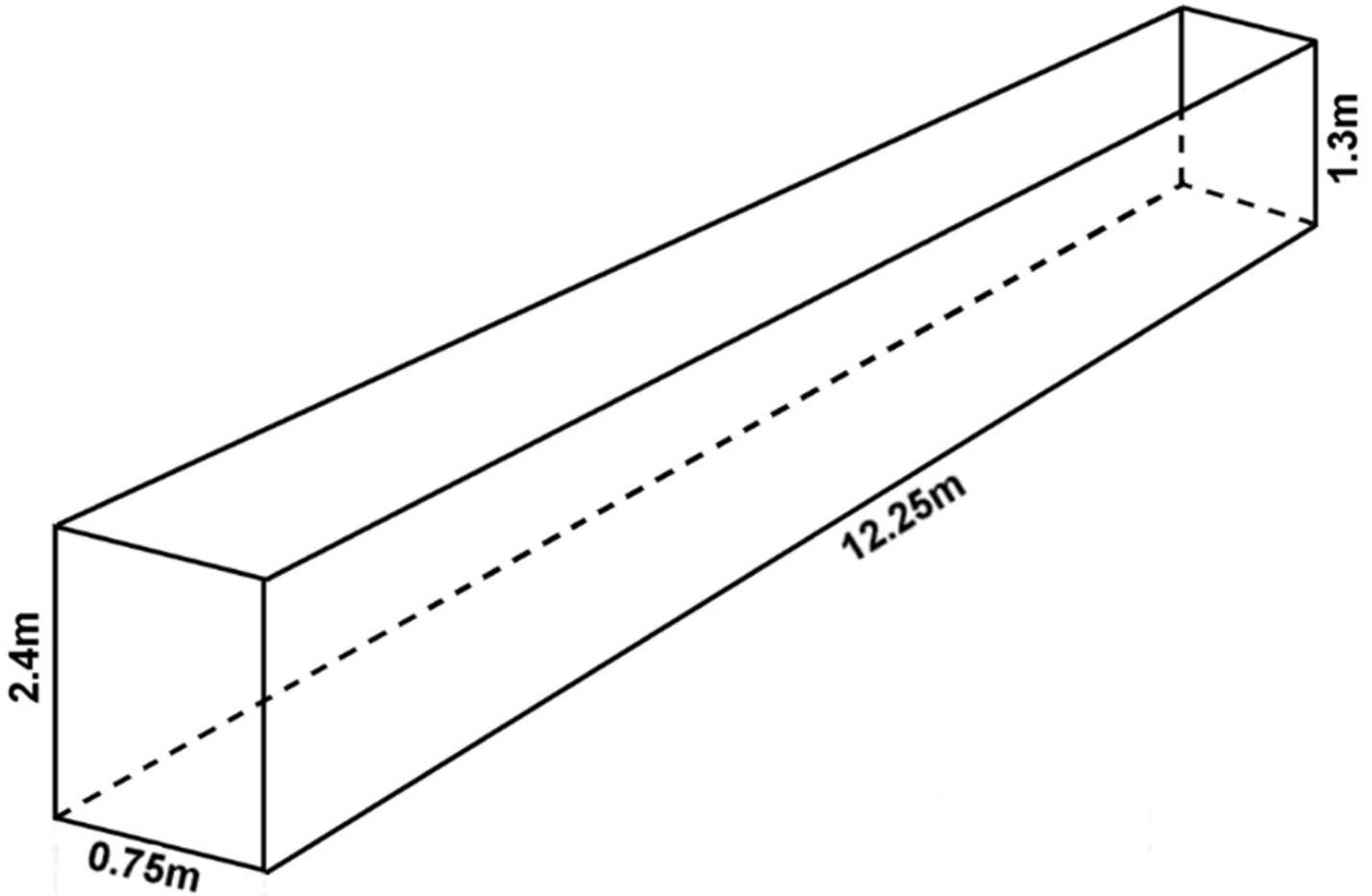
Question and Page: Q1 - 1/2

Session:

Date: 03 October 2024 4:04:00 PM

Candidate: JD001

DO NOT MARK OR WRITE ABOVE THIS LINE





Question and Page: Q1 - 2/2

Session:

Date: 03 October 2024 4:04:00 PM

Candidate: JD001

DO NOT MARK OR WRITE ABOVE THIS LINE

Average depth = $(2.4 + 1.3) \div 2 = 1.85$ (2 marks)

Volume = $12.25 \text{ m} \times 0.75 \text{ m} \times 1.85 \text{ m} = 16.996 \text{ m}^3$ (1 mark)

Convert to litres = $16.996 \times 1000 = 16996 \text{ L (12,000)}$ (1 mark)

Minutes = $16996 \div 50 = 339.9\text{mins (340mins)}$ (1 mark)

Total = 5 marks

-  G12 Water Supplies.pdf
-  E1 Surface Water (1)
-  AS/NZS5601.2-2020+A1
-  AS/NZS3500.2-2021+A1

Questions

5. Design



Design - L3 (5 marks)



Design - L3 (10 marks)



1. Health and Safety

Health and Safety - L1



2. Foul Water Systems

Foul Water - L1 and L2



3. Gasfitting Systems

Gasfitting - L3



Gasfitting - L1



4. Stormwater Systems


Stormwater - L2




Legend

Answered	Unanswered	Instructions read	Unread
----------	------------	-------------------	--------

-  Comment on the question

-  Bookmark the question for later

-  Hide the assessment sidebar

Click on any image or diagram to enlarge it. Use Ctrl + mouse wheel to zoom in and out. When zooming into images or diagrams, pan using the mouse, click to lock the position in place.

The diagram below is a schematic of uPVC water supply pipework in a building.

The building specifications state the following:

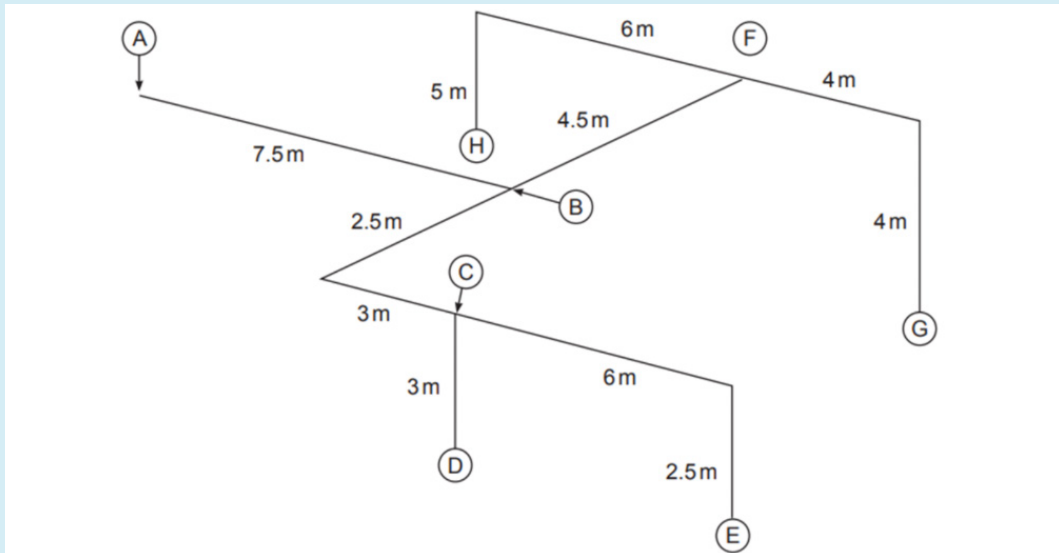
Support is to be provided 100 mm from the end of each pipe.

Three clips are to be included for each tee, each located 100 mm from the tee.

Two clips are to be included for each bend, each located 100 mm from the bend.

The straight lengths of pipework are to be supported to comply with New Zealand Building Code Acceptable Solution G12/AS1 Water Supplies.

Complete the table to show the number of clips required for each section of pipe listed.



-  G12 Water Supplies.pdf
-  E1 Surface Water (1)
-  AS/NZS5601.2-2020+A1
-  AS/NZS3500.2-2021+A1

Questions

5. Design

1

Design - L3 (5 marks)

1

Design - L3 (10 marks)

2

1. Health and Safety

Health and Safety - L1

3

2. Foul Water Systems

Foul Water - L1 and L2

4

5

3. Gasfitting Systems

Gasfitting - L3

6

Gasfitting - L1



7

4. Stormwater Systems

Stormwater - L2

8

Legend

Answered Unanswered Instructions read Unread Comment on the question Bookmark the question for later Hide the assessment sidebar

Click on any image or diagram to enlarge it. Use Ctrl + mouse wheel to zoom in and out. When zooming into images or diagrams, pan using the mouse, click to lock the position in place.

Complete the table to show the number of clips required for each section of pipe listed.

Pipe Section	Number of clips
A – B (25mm)	7 8 9 10 11
B – C (20mm)	6 7 8 9 10
C – D (15mm)	3 4 5 6 7
C – E (15mm)	7 8 9 10 11
B – F (20mm)	3 4 5 6 7
F – G (15mm)	7 8 9 10 11
F – H (15mm)	7 8 9 10 11

[← Previous](#)

Question 4 / 8 (1 mark)

[Next →](#)

Use the drop-down option/s to complete the following statement. Mark(s) are only awarded for a fully correct answer

The minimum capacity of 700 litres is required for a grease trap that takes the discharge from a 140 seat restaurant.

There is a maximum allowable distance between a gully dish and a grease trap of three metres to stop the waste water cooling and fats solidifying on the internal wall of the pipe

Reference Materials

[G12 Water Supplies.pdf](#)[E1 Surface Water \(1\)](#)[ASNZS5601.2-2020+A1](#)[ASNZS3500.2-2021+A1](#)

Questions

5. Design



Design - L3 (5 marks)

1

Design - L3 (10 marks)

2

1. Health and Safety

Health and Safety - L1

3

2. Foul Water Systems

Foul Water - L1 and L2

4

5

3. Gasfitting Systems

Gasfitting - L3

6

Gasfitting - L1

7

4. Stormwater Systems

Stormwater - L2

8

Legend

Answered

Unanswered

Instructions read

Unread

Comment on the question

179:23

[← Previous](#)

Question 4 / 8 (1 mark)

[Next →](#)

According to AS/NZS 5601 Part 2, what pressure should installation pipework in a caravan be pressurised to when performing a pipework test?

 2.0 kPa **A** 2.75 kPa **B** 5.0 kPa **C** 7.0 kPa **D** 14.0 kPa **E**

Reference Materials

[G12 Water Supplies.pdf](#)[E1 Surface Water \(1\)](#)[AS/NZS 5601.2:2020+A1](#)[AS/NZS 53500.2:2021+A1](#)

Questions

5. Design



Design - L3 (5 marks)

1

Design - L3 (10 marks)

2

1. Health and Safety

Health and Safety - L1

3

2. Foul Water Systems

Foul Water - L1 and L2

4

5

3. Gasfitting Systems

Gasfitting - L3

6

Gasfitting - L1

7

4. Stormwater Systems

Stormwater - L2

8

Legend

Answered

Unanswered

Instructions read

Unread

Comment on the question

179:23

[← Previous](#)

Question 8 / 8 (2 marks)

[Finish](#)[Next →](#)

Enter your answer to the nearest whole number. For example, 2040

How many ml is it acceptable for a 5m long x 150mm diameter surface water drain pipe to lose per hour during a water test carried out to comply with New Zealand Building Code clause E1/VM1 Surface Water?

1500

[← Previous](#)

Question 8 / 8 (2 marks)

[🗨](#) [📄](#)[Finish](#)[Next →](#)

Enter your answer to the nearest two decimal place. For example, 500.89

An LPG appliance has an efficiency of 80%.

The weight of the LPG supply cylinder is measured before and after gas rating. The cylinder weighs 48.0 kg prior to gas rating. After gas rating the appliance for 3 minutes and 10 seconds, the cylinder weighs 47.5 kg.

1 kg of LPG = 50 MJ.

Formula: $\text{Gas rate in MJ/hr} = \frac{\text{MJ used} \times 3600}{\text{time taken in seconds}}$

Calculate, in kW, the energy output for the appliance.

105.25

[← Previous](#)

Question 4 / 8 (1 mark)

[Next →](#)

Use the drop-down option/s to complete the following statement. Mark(s) are only awarded for a fully correct answer

A 1.2-metre hose assembly is used to connect a freestanding domestic cooker.

The maximum length allowed for the appliance restraint is

If a doorway is located near the installation, it must be at least away from the hose assembly connection point.

Reference Materials

- G12 Water Supplies.pdf
- E1 Surface Water (1)
- ASNZS5601.2-2020+A1
- ASNZS3500.2-2021+A1

Questions

5. Design

Design - L3 (5 marks)

Design - L3 (10 marks)

1. Health and Safety

Health and Safety - L1

2. Foul Water Systems

Foul Water - L1 and L2

3. Gasfitting Systems

Gasfitting - L3

Gasfitting - L1

4. Stormwater Systems

Stormwater - L2

Legend

 Answered Unanswered Instructions read Unread

Comment on the question

179:23

[← Previous](#)

Question 4 / 8 (1 mark)

[Next →](#)

A trench is to be dug in line with the footings of a building and will be 1.5 metres deeper than the footings. The trench is expected to be open for 3 days. How far away from the base of the footings must the trench be?

 1.0 m **A** 1.5 m **B** 2.0 m **C** 3.0 m **D** 4.5 m **E**

Reference Materials



G12 Water Supplies.pdf



E1 Surface Water (1)



ASNZS5601.2-2020+A1



ASNZS3500.2-2021+A1

Questions

5. Design



Design - L3 (5 marks)

1

Design - L3 (10 marks)

2

1. Health and Safety

Health and Safety - L1

3

2. Foul Water Systems

Foul Water - L1 and L2

4

5

3. Gasfitting Systems

Gasfitting - L3

6

Gasfitting - L1

7

4. Stormwater Systems

Stormwater - L2

8

Legend

Answered

Unanswered

Instructions read

Unread

Comment on the question

179:23

[← Previous](#)

Question 7 / 8 (1 mark)

[Next →](#)

An 8 metre length of pipe has been installed at a gradient of 1:80 (1.25%).

What is the pipe fall?

8 mm A

10 mm B

80 mm C

100 mm D

1000 mm E

Reference Materials

- G12 Water Supplies.pdf
- E1 Surface Water (1)
- ASNZS5601.2-2020+A1
- ASNZS3500.2-2021+A1

Questions

5. Design

Design - L3 (5 marks)

Design - L3 (10 marks)

1. Health and Safety

Health and Safety - L1

2. Foul Water Systems

Foul Water - L1 and L2

3. Gasfitting Systems

Gasfitting - L3

Gasfitting - L1

4. Stormwater Systems

Stormwater - L2

Legend

Answered Unanswered Instructions read Unread

Comment on the question

9:53

[← Previous](#)

Question 8 / 8 (2 marks)



Finish

[Next →](#)

You are required to select three correct answers to obtain the mark(s) for this question.

According to the Gas (Safety & Measurement) Regulations 2010 which of the following are examples of High-risk gasfitting?

- Replacing an instantaneous water heater with an equivalent instantaneous water heater which involves the repositioning of pipework. **A**
- Maintenance on a gas hob where there are no changes to the installation. **B**
- Adding a new gas hob on an existing gas installation. **C**
- A new gas installation where the maximum operating pressure is greater than 7 kPa on a LPG installation **D**
- A new gas installation where the maximum operating pressure is greater than 7 kPa on a Natural Gas installation **E**

Reference Materials

- G12 Water Supplies.pdf
- E1 Surface Water (1)
- ASNZS5601.2-2020+A1
- ASNZS3500.2-2021+A1

Questions

5. Design

i

Design - L3 (10 marks)

1

Design - L3 (5 marks)

2

1. Health and Safety

Health and Safety - L1

3

2. Foul Water Systems

Foul Water - L1 and L2

4**5**

3. Gasfitting Systems

Gasfitting - L3

6

Gasfitting - L1

7

4. Stormwater Systems

Stormwater - L2

8

Legend

Answered **Unanswered** **Instructions read** **Unread**

- Comment on the question
- Bookmark the question for later
- Hide the assessment sidebar

Click on any image or diagram to enlarge it. Use Ctrl + mouse wheel to zoom in and out. When zooming into images or diagrams, pan using the mouse, click to lock the position in place.

0:58