

## Exemplar Question Paper for Advanced Higher Computing Science

The Exemplar Question Paper and Marking Instructions have been developed to be used by centres and learners to prepare for question papers (exams) as part of Higher Course assessment. They show how questions from past papers can be used or amended to support learners in their exam preparation.

The structure of the Exemplar Question Paper is aligned with the guidance in the Course Assessment Specification, which is available on the subject page ([www.sqa.org.uk/browsecfesubjects](http://www.sqa.org.uk/browsecfesubjects)).

The questions in the Exemplar Question Paper follow the style and structure of similar questions in the [Specimen Question Paper](#) (also available on the subject page). The paper overall is designed to provide the same level of demand as the Specimen Question Paper; and the Detailed Marking Instructions reflect the approach of those in the Specimen Question Paper.

The questions included in the Higher Exemplar Question Paper were, as far as possible, selected or amended from those used in past papers, in accordance with the [Guidance on the use of past paper questions](#) document. Care has been taken to align the information in the table below with the questions identified in the guidance document and used in the Exemplar Question Paper.

If no suitable questions were available in recent past papers for reasons of sampling or because there is now new content, new questions were developed or appropriate questions were selected/adapted from other years. Details of how questions have been amended for this Exemplar Question Paper are given in the table below.

**When using any past paper questions, it is important to remember that centres and learners must take into account the generic guidance on selection and/or amendments to questions below.**

- ◆ You must select questions that provide the learners with the same level of challenge as those in the Advanced Higher Specimen Question Paper.
- ◆ You may be able to use questions as published or with amendments as suggested in the columns below.
- ◆ You must use questions that adhere to the Advanced Higher general marking principles and reflect the form of Detailed Marking Instructions as published in the Advanced Higher Specimen Question Paper.

If any change to a question is necessary, you must ensure that:

- ◆ The style and structure matches the Advanced Higher Specimen Question Paper.
- ◆ Marking of the learner's response to the question adheres to the General Marking Principles in the Advanced Higher Specimen Question Paper.
- ◆ Marking Instructions are amended to reflect the style of the Advanced Higher Detailed Marking Instructions.

## Additional Subject Specific Information for Advanced Higher Computing Science

The table below shows which questions in the Exemplar Question Paper were selected/amended from both Advanced Higher Computing and Advanced Higher Information Systems question papers (and in what way they were amended) — in accordance with the **Guidance on the use of past paper questions for Advanced Higher** document — and also lists any new questions.

The Advanced Higher Exemplar Question Paper can be found on the [subject page](#).

Question papers in Advanced Higher will have the following mark allocations:

The question paper will have one section of 60 marks (40% of the total mark) and consist of structured and extended-response questions. There will be four structured questions of 15 marks each, which will draw on understanding from two or more topics; each question will be broken down into sub-questions. Some sub-questions will require integration.

Approximately 50% of the marks overall will be awarded for parts of questions related to Software Design and Development concepts.  
Approximately 50% of the marks overall will be awarded for parts of questions related to Information System Design and Development concepts.

### Glossary of terms

Term	Explanatory comment
<b>Question used as published in past paper</b>	Past paper question has been used as previously published.
<b>Past paper question with context amended</b>	Past paper question has been used, but the basis of the information has altered, eg in Geography, this may mean a change in context from glaciation to coasts.
<b>Past paper question with source amended</b>	Past paper question has been used, but the source of information is different, eg in English this may mean a different text has been used.
<b>Past paper question with style amended</b>	Past paper question has been used, but the style of questioning has changed, eg in Mathematics, multiple-choice questions may have been changed to a short response question.
<b>Past paper question with structure amended</b>	Past paper question has been used but the structure of the question has changed, eg in Physics it may mean only part of a question was used with amendments to Marking Instructions to take account of no half marks.
<b>New question written</b>	This is a new area of Course content.

Exemplar Question Paper question number	Question used as published in past paper, with/without amendment to Marking Instructions	Past paper question with context amended	Past paper question with source amended	Past paper question with style amended	Past paper question with structure amended	New question written
Q1 — all						New questions to address specific topic areas of CAS, including OO programming concepts and use of SQA reference language.
Q2	Stem adapted from AH IS QP 2013, Q13.					
Q2 (a)(i)		Adapted from AH IS QP 2013, Q16 (c)(i).				
Q2 (a)(ii)						New question to assess candidates' ability to write SQL query.
Q2 (a)(iii)		Adapted from AH IS QP 2013, Q16 (c)(iv).				
Q2 (b)		Adapted from AH IS 2014, Q11 (b), with context amended and image adapted to match data items in tables and HTML script provided. Question revised to reflect changes to CAS and CfE approach.				
Q2 (c)						New question to address specific topic areas of CAS.

Q3	Stem from AH Computing 2011, Q3.					
Q3 (a)		AH Computing 2011, Q3 (a). Question revised to reflect changes to CAS and CfE approach. Image changed to include 'Add' button which affected subsequent questions.				
Q3 (b)						New question to reflect changes to CAS within context of adaptation to AH Computing 2011, Q3(a).
Q3 (c)(i)		AH Computing 2011, Q3 (b). Question revised to reflect changes to CAS and CfE approach.				
Q3 (c)(ii)						New question to reflect changes to CAS within context of adaptation to AH Computing 2011, Q3 (b).
Q3 (d)(i) and d(ii)						New question to reflect changes to CAS within context of adaptation to AH Computing 2011, Q3.
Q4	Question stem from AH Computing 2014, Q2.					
Q4 (a)				Adapted from AH Computing 2014, Q2 (b) with style amended.		

Q4 (b)				Adapted from AH Computing 2014, Q2 (b) with style amended.		
Q4 (c)	From AH Computing 2014, Q2 (c).					
Q4 (d)						New question to reflect changes to CAS — broadly based on AH Computing 2014, Q2.
Q4 (e)						New question to reflect changes to CAS within context of adaptation to AH Computing 2014, Q2.