

**Advanced Subsidiary GCE** 

## INFORMATION AND COMMUNICATION TECHNOLOGY

Unit G061: Information, Systems and Applications

**Specimen Paper** 

Candidates answer on the question paper.

### **G061QP**

Time: 2 hours



Candidate Name				
Centre Number		Candidate Number		

#### **INSTRUCTIONS TO CANDIDATES**

- Write your name in the space above.
- Write your Centre number and candidate number in the boxes above.
- Answer all the questions.
- Write your answers in blue or black ink, in the spaces on the question paper.
- Read each answer carefully and make sure you know what you have to do before starting your answer.

#### **INFORMATION FOR CANDIDATES**

- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this paper is 120.
- The quality of your written communication will be examined in question 11 and 12.
- No marks will be awarded for using brand names of software packages or hardware.

101 6	ammers	036
	Mark	Max
1		16
2		20
3		4
4		6
5		10
6		6
7		6
8		14
9		8
10		12
11		9
12		9
Total		120

For Examiners Use

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An	architect is setting up an office in her house.	
(a)	Sonia Patel is aware of the health and safety implications of using computers. When she sets up her office she wants to avoid any health and safety risks.	<del>)</del>
	For each risk given below identify a different item that could reduce the problem.	
	Repetitive Strain Injury (RSI)	
	Back ache	
	Eyesight Defects	
		[3]
(b)	Identify <b>three</b> different output devices Sonia will need in the office. In each case give ar example of how she would use it.	1
	Device 1	
	Use	
	Device 2	
	Use	
	Device 3	
	Use	
		[6]
(c)	Identify <b>three</b> tasks for which Sonia could use a spreadsheet.	
	Task 1	
	Task 2	
	Task 3	
		[3]
(d)	Sonia needs to transfer data between two applications with no common format.	[3]
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a)	The program will have a tailored data-entry screen.
	Describe <b>three</b> design considerations that should be taken into account when designing a data-entry screen.
	1
	2
	3
2)	
o)	Some of the data needs to be coded before it can be used.
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(c)	The	new program uses both real numbers and integers.
	(i)	What is meant by a real number?
		[1]
	(ii)	Give a suitable piece of information that should be stored as a real number by the insurance company.
		[1]
	(iii)	What is meant by an integer number?
		[1]
	(iv)	Give a suitable piece of information that should be stored as an integer number by the insurance company.
		[1]
(d)	The	data entered needs to be validated.
	(i)	What is meant by validation?
		[1]
	(ii)	Give <b>two</b> methods of validation that could be used with a text based data entry field.
		1
		2
		[2]

	(e)	The insurance company needs good quality information in order to produce quotations.	
		Identify three factors that affect the quality of information.	
		1	
		2	
		3	
			[3]
3	A h	ome computer enthusiast is performing monthly maintenance on her machine.	
		scribe <b>two</b> different types of utilities she could use to assist her in this maintenance.	
	2		
			[4]
4		emoval company uses a computer-based route finding system to assist in planning the rou	ute
4	betv	ween two houses.	ute
4	betv Ider	ween two houses.  Intify <b>six</b> characteristics of computer-based route finding systems.	
4	betv Ider	ween two houses.	
4	betw Ider 1	ween two houses.  Intify <b>six</b> characteristics of computer-based route finding systems.	
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(a)	Describe how the following characteristics of modelling software could be used to create the financial model.
	Variables
	Formulae
(b)	[4] The model uses absolute and relative cell referencing.
()	Describe absolute cell referencing and give an example of how the holiday company might make use of it in its financial model.
	Description
	Example
(c)	Describe what is meant by a workbook and give an example of how the holiday company might make use of it in its financial model.
	Description
	·
	Example
	[3

An airport	uses different methods to convey information to its passengers.
Identify wl of its use.	nere each of the following methods could be used in the airport and give an advantage
Pictures	
Sound	
Video	
Describe	rsity has several colleges. These colleges are in different buildings.  three advantages to the University of networking the computers in the colleges
Describe together.	rsity has several colleges. These colleges are in different buildings.
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	ompany has an on-line store which sells camping equipment. It uses a relational database tore details of customers, suppliers and orders.
(a)	The relational database is normalised to third normal form (3NF).
	Describe <b>two</b> advantages to the company of having its database normalised.
	1
	2
	[A1
(b)	[4] Identify <b>one</b> characteristic of data in first normal form (1NF).
(6)	identify one characteristic of data in first normal form ( five ).
	[1]
	[·]
(c)	Identify <b>two</b> characteristics of data in third normal form (3NF).
	1
	2
	[2]
(d)	A data dictionary contains information on the database.
	Identify three components found in the data dictionary.
	1
	2
	2
	3
	[3]
	[5]

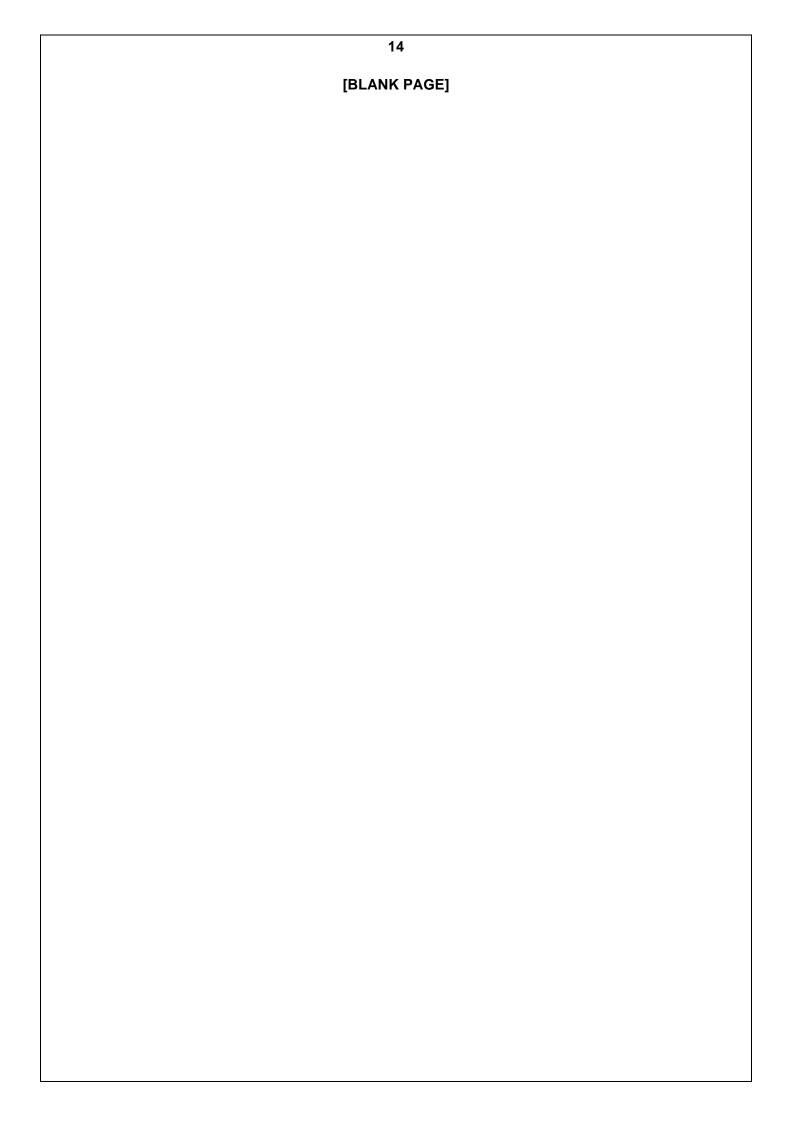
	(e)		e company wants its customers, who use the on-line store, to be able to search its ducts using both simple and complex queries.
		(i)	Describe the difference between a simple and a complex query.
			[2]
		(ii)	Give an example of a simple query and a complex query that the customer might use.
			Simple
			Complex
•	۸ .:		[2]
9			
9	infor	mati	[2] a holds information on its regular customers in a database and wants to send them
9	infor	mati merg	[2] a holds information on its regular customers in a database and wants to send them on on new film releases.
9	infor Mailr	mati merg	[2] a holds information on its regular customers in a database and wants to send them on on new film releases.  The can be used to complete this task.
9	infor Mailr	mati merg	[2] a holds information on its regular customers in a database and wants to send them on on new film releases.  The can be used to complete this task.  Scribe the process of mailmerge.
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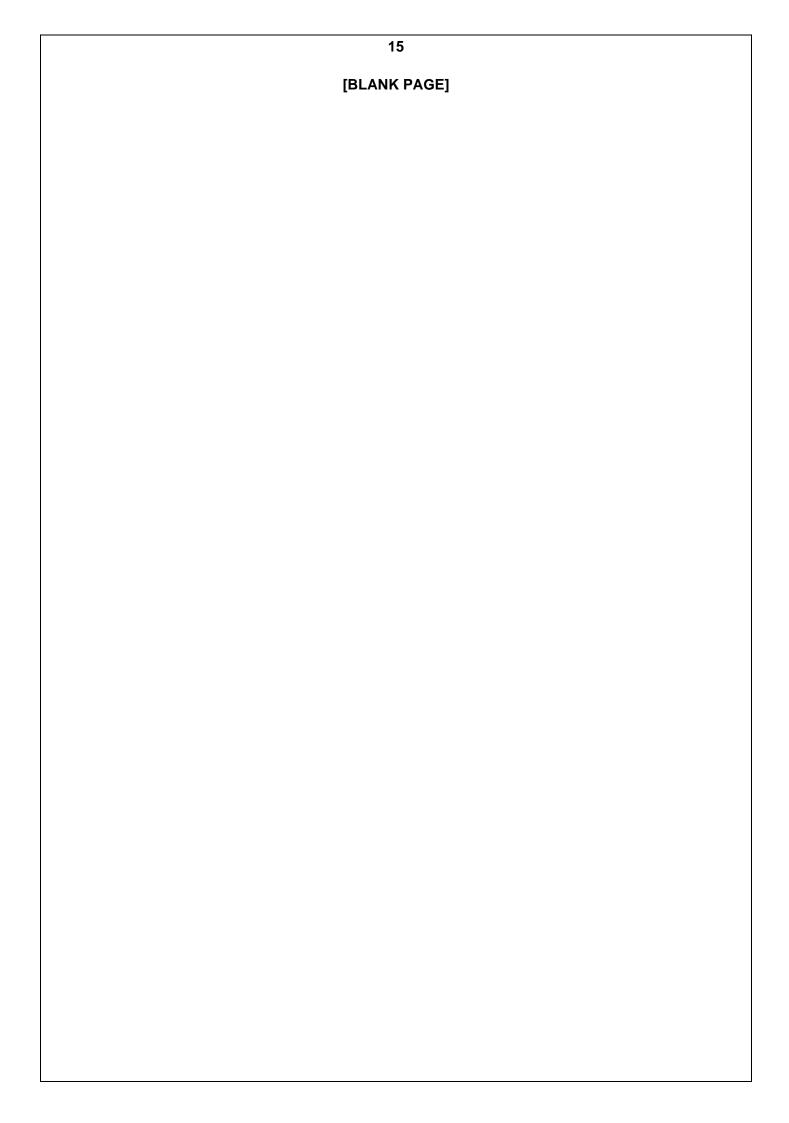
	(b)	Describe <b>two</b> advantages of using mailmerge to send information to the customers.	
		1	
		2	
40	۸		[4]
10	offer	employment agency visits universities and gives presentations to students on the services in services in the s	τ
	(a)	The presentation could be delivered using printed acetate or a computer and projector.	
		Describe <b>two</b> features of a presentation that would only be available when using a computer and projector.	а
		1	
		2	
			[4]
	(b)	The presentation could use vector or bitmap graphics.	
	` ,	Identify <b>four</b> differences between vector and bitmap graphics.	
		1	
			••••
		2	••••
		<u></u>	
		3	••••
		4	
			[4]

D p	Describe <b>two</b> advantages of using clip art images instead of personal photographs in the presentation.					
2						
	[4					

Discuss the impact on society of using the Internet to shop.

	The quality of your written communication will be assessed in your answer to this question.
12	Discuss developments in ICT that may have an impact on how lessons could be taught in the future in schools.
	PAT
	[9]





16	
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## **OXFORD CAMBRIDGE AND RSA EXAMINATIONS**

**Advanced Subsidiary GCE** 

# INFORMATION AND COMMUNICATION TECHNOLOGY

**G061 MS** 

Unit G061: Information, Systems and Applications

**Specimen Mark Scheme** 

The maximum mark for this paper is 120.

Question Number	Answer	Max Mark
1(a)	1 mark each, e.g: RSI: Adjustable chair/wrist rest/ergonomic keyboard (1) Back ache: adjustable chair/adjustable monitor/foot rest (1)	
(b)	Eyesight defects: Monitor filter/flicker free monitor/suitable lighting (1)  1 for identification of device, 2 <sup>nd</sup> for example of use, e.g: Printer (1) to print letters (1) Monitor (1) to view designs on screen (1) Speaker (1) for sounds of error messages (1)	[3] [6]
(c)	1 mark each, e.g: Accounts (1) Calculations for designs (1) Mail merge data source (1) Creating graphs (1)	[3]
(d)	4 from:  Export from first application (1)  Into common format (1)  Import into target application (1)  Convert (1)	
	Save into new format (1)	[4]

2(a)	1 for identification, 2 <sup>nd</sup> for description, e.g			
<b>2</b> (a)	White space (1) highlight important points (1)			
	Volume of data (1) how much to place on a page (1)			
	Consistency with house style (1) to ensure usability and less			
	learning (1)			
	Error messages (1) what form will they take (1)			
	Accessibility / Disability (1) how to ensure full access (1)	[6]		
(b)	1 mark for identify, 2nd for description / example, 2 from:			
()	Precision of data coarsened (1)			
	e.g Light Blue coded as Blue (1)			
	The user needs to know the codes utilised (1)			
	If the user is not aware of the codes then they cannot			
	interpret the data (1)			
	Coding of Value judgements (1)			
	e.g "Is the house in good condition?" to be coded as a			
	judgement of 1-4. This will be coded differently by different			
	people and makes comparisons difficult (1)			
	Limited number of codes (1)			
	If codes are made up of a range of letters and numbers they			
	can end up running out of codes (1) Difficult to track errors (1)			
	Validation will ensure the code is entered correctly but the			
	nature of the code will make it difficult to see if the code is			
	actually correct (1)	[4]		
(c)(i)	1 from:			
	Number with decimal point/fraction (1)			
	Rational and irrational numbers (1)	[1]		
(ii)	1 from, for example:			
	Price of premium (1)			
	Size of rooms/house (1)			
	Any reasonable piece of data to do with insurance (1)	[1]		
(iii)	1 from:			
` ,	Number without decimal point/no fraction (1)			
	Whole number (1)	[1]		
(iv)	1 from, for example:			
( )	Age of property/car (1)			
	Number of doors on car (1)			
	Customer code (1)			
	Insurance rating (1)			
	Number of people insured (1)			
	Years of no claims bonus (1)	[1]		

2 Contd.		
(d)(i)	1 from:	
	Data entered is reasonable/within boundaries/conforms to rules (1)	[1]
(ii)	(ii) 2 from:	
(e)	Presence (1) Lookup / Existence (1) Length (1) Type (1) Picture / Format (1) 3 from, 1 mark each: (allow example) Volume (1) Accuracy (1) Relevance/ valid (1) Age (1)	[2]
	Completeness (1) Presentation (1)	[3]
3	1 for identify, 2nd for description of utility, examples include:  Defragmentation tools (1) reassemble files into contiguous clusters (1)  Scandisk tools (1) searches for errors on disks (1)  Anti-virus tools (1) checks and prevents viruses (1)  File management tools (1) organises directories (copy/delete) (1)  Disk compression tools (1) frees space by compressing files (1)  Create resize volume tools (1) organisation of files (1)  Searching (1) file duplication (1) find files by name or other criterion (1)	[4]
4	6 from, e.g:  Can get directions in graphical form / maps (1) Directions can be given in text (1) Directions/maps can be printed (1) Maps/directions can be saved (1) Zoom in feature can be applied (1) Places of interest/fuel stations/hotels etc can be shown (1) Plot multiple destinations per journey/via (1) Can select road types e.g. motorways/roads etc (1) Can select fastest/shortest routes (1) User gives start place/postcode (1) User provides destination name/postcode (1) Different routes provided (1)	
	Routes can be downloaded to GPS (1)	[6]

	5		
5(a)	2 marks each:		
- (,	Variables, any 2 from:		
	Holds values which can change (1)		
	Used in formulas/functions (1)		
	e.g VAT rate/allow any valid example (1)		
	Formulae, any 2 from:		
	Performs calculations (1)		
	Entered by user to add/subtract (1)		
	eg SUM/allow any valid example (1)	[4]	
(b)	2 for description, 1 for example:	1.1	
(D)	Description:		
	Cell reference remains static (1)		
	` '		
	when formulae/function is replicated/copied (1)		
	Example:	[2]	
	e.g For referring to delivery charges/VAT rate/NI Rate (1)	[3]	
(c)	2 for description, 1 for example:		
	Description:		
	Collection of worksheets (1)		
	Given single name (1)		
	Links between sheets (1)		
	Example: (only allow examples given in the context of the holiday company)		
	e.g Workbook for sales in the months for the year/each		
	salesperson/branch (1)	[3]	
6	2 for each method, 1 for example, 1 for advantage of use, eg		
	Pictures:		
	Advertisements (1)		
	Can be seen from a distance/no need for silent environment		
	(1)		
	Sound:		
	Fire alarms (1)		
	Language independent/cuts through general noise (1)		
	Video:		
	Emergency procedures (1)		
	Visual language free reference (1)	[6]	
	VISUALIANQUAGE TEE TELEFENCE CO		

	0	1		
7	1 for identify, 2nd for description/example, 3 from:			
	Sharing of expensive resources (1) such as scanners and printers			
	(1) Control relieut of coffware (1) act up coffware and relieut to all			
	Central rollout of software (1) set up software and rollout to all machines (1)			
	Ability to backup/restore (1) data centrally (1)			
	Access to own files (1) from different colleges (1)			
	Accounting and monitoring of resources (1) access rights etc. (1)			
	Setting up an intranet (1) creating a walled garden (1)			
	Virus checking (1) from a central location (1)	[6]		
8(a)	1 for identification, 2 <sup>nd</sup> for description, 2 from:			
	Less money spent on storage (1) less data to store (1)			
	Increased access times to data (1) less data to sort/search through			
	(1)			
	Higher data integrity (1) only one set of data stored for each item			
	<ul><li>(1) less chance of storing two copies of the data which are different</li><li>(1)</li></ul>			
	Able to alter many data items at once saving time (1) through			
	cascade			
	update/delete (1)	[4]		
(b)	1 from:			
, ,	Primary Key (1)			
	Data is atomic (1)			
	No repeating groups (1)	[1]		
(c)	2 from:			
	Data in first/second normal form/Allow one feature of first/second			
	(1)			
	Every non-key attribute is non-transitively dependent on the	[2]		
/ 4/	primary key (1)	[2]		
(d)	3 from: Table Name (1)			
	Field Name (1)			
	Field Name (1) Field Data Type (1)			
	Field Data Type (1) Field Length (1)			
	Field Default Value (1)			
	Field Validation (1)			
	Table Security (1)			
	Keys (1)			
	Indexes (1)			
	Relationships (1)	[3]		
(e)(i)	2 from:			
	Simple contains one parameter (1)			
Complex contains more than one parameter (1)				
	Complex uses AND/OR/NOT (1)	[2]		
(ii)	2 from, must be relevant to online store and customers, e.g			
	Simple: Search for tents (1)			
	Complex: Tents under £200 (1)	[2]		

9(a)	4 from:  Data source created (1)  Using database/spreadsheet table in word processing (1)  Standard letter created (1)  Linked to data source (1)  Mailmerge fields entered (1)  Output created (1)	[4]
(b)	2 from, 2 marks per advantage: Required customer records held in database (1) can be selected (1) Many flyers (can be personalised) (1) and sent to selected customers (1) Flyers can be sent to selected customers (1) based on searches/sorts run on database (1) All appropriate customers (1) will be sent information (1) less risk of human error (1) Saves time (1) customer details already held on the database (1) Only need to proof-read once (1) all errors will be found/corrected (1)	[4]
10 (a)	1 for identification, 2 <sup>nd</sup> for description, 2 from, eg Animation (1) Pictures with a time gap between them (1) Sound (1) Music on transition/animation (1) Transition (1) Automatic or manual between slides (1) Videos (1) Films played automatically or on mouse click (1) Carousel (1) Played automatically without intervention (1) Loops back to beginning (1) Interaction (1) Remember names/test scores (1)	[4]

10 contd.		
(b)	4 from:	
(c)	VG take up less memory than BM (1) VG make greater demand on Processor than BM (1) VG take up less space on disk than BM (1) VG can be grouped (1) VG made up of lines (1) VG can be created using lines/formulae/equations (1) BM made up of pixels (1) BM takes longer to load than VG (1) BM pixelate on enlargement (1)  1 for identify, 2 <sup>nd</sup> for description, 2 from: Choice (1) Wide range of clipart available (1) Copyright (1) Clipart is drawn and copyright is held by one person, photographs can contain people who need to give their permission to use the photo (1) Cost (1) No need to buy digital camera (1) Size (1)	[4]
	Clipart takes less disk space (1)	[4]

#### 11 Banded Response:

High: 7-9 Medium: 4-6 Low: 0-3

#### High (7-9)

Candidates will show a clear understanding of the problem and answer the question

Candidates will accurately and clearly, as a minimum, give both positive and negative implications and a discussion will take place The information will be presented in a structured and coherent form appropriate to a discussion

There will be few if any errors in spelling, grammar and punctuation Technical terms will be used appropriately and correctly

#### Medium (4-6)

Candidates will show an understanding of the problem and may answer the question from one viewpoint only

Candidates may only give either positive or negative implications
The information will be presented in a structured format appropriate to
a discussion

There may be occasional errors in spelling, grammar and punctuation Technical terms will be mainly correct

#### Low (0-3)

Candidates may demonstrate a limited understanding of the problem Information may be a list of points, with no implications Information will be poorly expressed and the presentation of the information may not be appropriate for a discussion There will be limited, if any, use of technical terms Errors of grammar, punctuation and spelling may be intrusive

#### Answers may include:

Choice of goods – can use Internet to search for lowest possible price and check reviews of stores before placing order to ensure that it is not a scam and your money is not going to be stolen Increase in purchases from abroad, not paying tax to UK government, therefore less income so tax rises needed elsewhere to recoup money lost

May lead to a lack of social integration

One needs to be in to receive a delivery of goods

No need to leave the house - disabled, ill

#### **12** Banded Response:

High:7-9 Medium: 4-6 Low: 0-3

#### High (7-9)

Candidates will show a clear understanding of the problem and answer the question

Candidates will accurately and clearly, as a minimum, give both positive and negative implications and a discussion will take place The information will be presented in a structured and coherent form appropriate to a discussion

There will be few if any errors in spelling, grammar and punctuation. Technical terms will be used appropriately and correctly

#### Medium (4-6)

Candidates will show an understanding of the problem and may answer the question from one viewpoint only

Candidates may give either positive or negative implications
The information will be presented in a structured format appropriate to
a discussion

There may be occasional errors in spelling, grammar and punctuation Technical terms will be mainly correct

#### Low (0-3)

Candidates may demonstrate a limited understanding of the problem Information may be a list of points, with no implications Information will be poorly expressed and the presentation of the information may not be appropriate for a discussion There will be a limited, if any, use of technical terms Errors of grammar, punctuation and spelling may be intrusive

#### **Answers may include:**

Recorded courses which can be played back in virtual reality Memory chips in the brain to contain information

On line on demand testing and marking giving instant results Use of personal technology to take to all lessons – no text books With memory chips, all knowledge can be given to everyone therefore more time can be given to developing thinking and analysis skills which are valued by employees and make students more employable

Use of technology requires students to have the equipment in working order for all lessons. If they forget it or it is broken then they will lose out on that lesson and be behind

will lose out on that lesson and be benind	
	[9]
Paper Total	[120]

## Assessment Objectives Grid (includes QWC)

Question	AO1	AO2	Total
1	16		16
2	20		20
3	4		4
4	6		6
5	10		10
6	6		6
7	6		6
8	14		14
9	8		8
10	12		12
11	9		9
12	9		9
Totals	120		120