

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS
International General Certificate of Secondary Education

MARK SCHEME for the May/June 2012 question paper
for the guidance of teachers

**0417 INFORMATION AND COMMUNICATION
TECHNOLOGY**

0417/21

Paper 2 (Practical Test A), maximum raw mark 80

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

- Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2012 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Page 2	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – May/June 2012	0417	21

Name

Candidate number, Centre number

Header
Name left, candidate number Centre number right aligned 1 mark

Section break after titles
3 columns 1 mark
1 cm space 1 mark

Tawara Star Approved Sales

Interview with Mr Lucknow by: name

Mr Lucknow tells us how the company developed. "I started selling second hand cars from a little car lot down town.

I was proud of what I had achieved and of the small family car Micro, and drove expect I would still be there but for two my business forward things. One was the education I gave my children and the other was the launch of the Lola Micro range of

Title entry accurate, formatted 26 point serif, underlined and right aligned to margin 2 marks
Subtitle entry accurate, formatted 18 point serif, italic not underlined and right aligned to margin 2 marks



I have four children and I can be really proud of their educational successes. My eldest is Sally, a finance director and drives us forward in the market. She has set up all our new sales locations and showrooms in each of the European cities where we have expanded.

Both spelling errors corrected 1 mark

I give you a picture of my car sales point from which I sold second hand cars in those days. As you see, it is no longer used but this is where I started.

Image
Placed and aligned correctly to text and margin 1 mark
Resized to fill column with no distortion 1 mark
Text wrapped round image 1 mark

completed at the university. When he got his degree, he went on to study for an MBA. He has become my international business development director in the new franchises we have gained from Lola Motor he who saw the potential

The youngest of the children, the twins, studied mechanical and electrical engineering at university and have become my technical directors, managing the new cars for delivery, servicing and repairs.

Footer date centre, page number right aligned 1 mark

Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – May/June 2012	0417	21

Name

Candidate number, Centre number

It was pressure from them that made me make the leap forward from my little back street operation. They wanted to push me forward and modernise my business. I had my computers and I still don't like to rely on computers. However, the new generation have shown that a modern company cannot exist without electronic communications and services. My nephew designs our web site and maintains overall strategies for computers in the firm.

Page layout
A4 landscape 1 mark
All margins 4 cms 1 mark

It was through these modernising influences that Tawara Star Approved Sales was able to get the franchise to sell the Micro range. This car is so well placed to match the market desires that we continue to expand our sales franchises.

The Lola Motor Corporation introduced this range of small cars to meet the aspirations of families who have so far not become car owners and did not expect to be able to afford their own car. They are so well built

and environmentally friendly that they are really popular with our new customers.

We started with one showroom in the town where I had my second hand car sales. We soon found that we had plans to expand into other countries and have just opened our latest sales base in

Madrid. We now have a network of major cities across Europe.

Two new technologies that have been developed are hybrid cars using electric power with small petrol engines and fully electric cars which are suitable for running round town. Many new charging points are being installed in town centres so that your car can be recharged while you are shopping. Future plans, at present only concepts, include hydrogen power with the main emission being water.

Here is the range of Micro cars we sell.”

The complete Micro Range		
Model	Code	Description
MicroB	EG0016934	Entry model
Micro	ID0137637	Family car
MicroSE	SA1219259	Hybrid economy
MicroZed	PK5204785	Diesel power
MicroEco	ZZ9990362	Electric power

Body text format
12 pt sans-serif, 1 mark
1.5 ls 1 mark
fully justified 1 mark
consistent paragraph spacing 1 mark

File found and placed correctly 1 mark
Text matches body text 1 mark
Top two rows bold, centred and underlined 1 mark
Top row only merged cells 1 mark
Apply shade to top two rows only 1 mark
All borders to print 1 mark

No widows, orphans, split lists, blank pages 1 mark
document complete with paragraphs intact 1 mark

Page 4	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – May/June 2012	0417	21

Name

Candidate number, Centre number

List of MicroZed cars for sale

Location	VIN	Model	Power	Engine_Size	Price	Colour	Sold
Madrid	371B15423006	MicroZed	D	1200	€11,000.00	Gold	No
Paris	371C15423008	MicroZed	D	1200	€11,000.00	Green	No
Rotterdam	372B15423013	MicroZed	D	1200	€11,000.00	Silver	No
Madrid	371B15423011	MicroZed	D	1200	€11,000.00	Blue	No
Paris	371C15423008	MicroZed	D	1200	€11,000.00	Green	No
Rotterdam	372B15423013	MicroZed	D	1200	€11,000.00	Gold	No
Paris	372B15423016	MicroZed	D	1200	€11,000.00	Blue	No
Madrid	372C15423001	MicroZed	D	1200	€11,000.00	Green	No
Madrid	372C15423008	MicroZed	D	1200	€11,000.00	White	No
Paris	372C15423011	MicroZed	D	1200	€11,000.00	Gold	No
Madrid	372C15423014	MicroZed	D	1200	€11,000.00	Blue	No
Paris	372C15423016	MicroZed	D	1200	€11,000.00	Blue	No
Madrid	373A15423012	MicroZed	D	1200	€11,000.00	Red	No
Hamburg	373B15423005	MicroZed	D	1200	€11,000.00	Blue	No
Hamburg	373B15423014	MicroZed	D	1200	€11,000.00	Blue	No
Rotterdam	373C15423009	MicroZed	D	1200	€11,000.00	Silver	No
Rotterdam	373C15423007	MicroZed	D	1200	€11,000.00	Red	No
Paris	374A15423007	MicroZed	D	1200	€11,000.00	Blue	No
Rotterdam	374A15423007	MicroZed	D	1200	€11,000.00	Green	No
Rotterdam	374B15423008	MicroZed	D	1200	€11,000.00	Blue	No
Madrid	374B15423009	MicroZed	D	1200	€11,000.00	Green	No
Hamburg	374B15423012	MicroZed	D	1200	€11,000.00	Green	No
Paris	375A15423003	MicroZed	D	1200	€11,000.00	Gold	No

Page 5	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – May/June 2012	0417	21

Location	VIN	Name	Model	Power	Engine Size	Candidate number, Centre number	Price Colour	Sold
Rotterdam	375A15423007		MicroZed	D	1200		€11,000.00 Blue	No
Hamburg	375A15423013		MicroZed	D	1200		€11,000.00 White	No
Rotterdam	375B15423004		MicroZed	D	1200		€11,000.00 Gold	No
Rotterdam	375B15423013		MicroZed	D	1200		€11,000.00 Blue	No
Paris	375B15423019		MicroZed	D	1200		€11,000.00 Silver	No
Rotterdam	375C15423002		MicroZed	D	1200		€11,000.00 Red	No
Rotterdam	375C15423018		MicroZed	D	1200		€11,000.00 White	No
Hamburg	376A15423009		MicroZed	D	1200		€11,000.00 White	No
Rotterdam	376A15423012		MicroZed	D	1200		€11,000.00 White	No
London	376B15423005		MicroZed	D	1200		€11,000.00 White	No
Rotterdam	376B15423006		MicroZed	D	1200		€11,000.00 White	No
Paris	376C15423002		MicroZed	D	1200		€11,000.00 Blue	No
London	377A15423011		MicroZed	D	1200		€11,000.00 White	No
London	377A15423013		MicroZed	D	1200		€11,000.00 Blue	No
London	377B15423001		MicroZed	D	1200		€11,000.00 Green	No
Madrid	377B15423004		MicroZed	D	1200		€11,000.00 Silver	No
London	377B15423007		MicroZed	D	1200		€11,000.00 Green	No
Hamburg	377B15423015		MicroZed	D	1200		€11,000.00 White	No
Hamburg	377B15423016		MicroZed	D	1200		€11,000.00 Gold	No
Hamburg	377B15423019		MicroZed	D	1200		€11,000.00 White	No
Paris	377C15423003		MicroZed					No
Rotterdam	377C15423008		MicroZed	D	1200		€11,000.00 Green	No
Hamburg	377C15423011		MicroZed	D	1200		€11,000.00 Blue	No
Madrid	377C15423018		MicroZed	D	1200		€11,000.00 Red	No
Paris	377C15423019		MicroZed	D	1200		€11,000.00 Green	No
Hamburg	377C15423020		MicroZed	D	1200		€11,000.00 Gold	No

Three records added

3 marks

Number of cars for sale

49

Candidate details

Fits one page wide

1 mark

Details on right at foot of report

1 mark

Counts number of cars for sale

1 mark

Has label *Number of cars for sale*

1 mark

Page 6	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – May/June 2012	0417	21

Name

Candidate number, Centre number

Sales record for Geldorf

Report heading <i>Sales record for Geldorf</i>	1 mark
Discount correctly calculated	1 mark
Sale_price correctly calculated	1 mark
All currency values in Euros with 2 dp	1 mark

Sales_person	Model	Price	Discount	Date_sold	Sale_price	Sold
Geldorf	Micro	€8,500.00	€1,275.00	10/03/2012	€7,225.00	Yes
Geldorf	Micro	€8,500.00	€0.00	05/04/2012	€8,500.00	Yes
Geldorf	MicroB	€7,500.00	€375.00	07/01/2012	€7,125.00	Yes
Geldorf	MicroEco	€13,000.00	€1,950.00	08/03/2012	€11,050.00	Yes
Geldorf	MicroEco	€13,000.00	€2,600.00	06/04/2012	€10,400.00	Yes
Geldorf	MicroEco	€13,000.00	€1,950.00	09/03/2012	€11,050.00	Yes
Geldorf	MicroEco	€13,000.00	€1,300.00	02/02/2012	€11,700.00	Yes
Geldorf	MicroEco	€13,000.00	€650.00	01/02/2012	€12,350.00	Yes
Geldorf	MicroSE	€12,000.00	€1,200.00	01/01/2012	€10,800.00	Yes
Geldorf	MicroSE	€12,000.00	€2,400.00	09/02/2012	€9,600.00	Yes
Geldorf	MicroZed	€11,000.00	€0.00	09/04/2012	€11,000.00	Yes
Geldorf	MicroZed	€11,000.00	€0.00	10/01/2012	€11,000.00	Yes

Candidate name, number and centre number

Total value of sales

€121,800.00

Sold = Yes	1 mark
Sales made in 2012	1 mark
Sales_person is Geldorf	1 mark


Sum of sale_price	1 mark
Has label <i>Total value of sales</i>	1 mark
Details on left at foot of report	1 mark

Only the specified fields	1 mark
Orientation is portrait	1 mark
Fits one page wide	1 mark
All data and labels fully visible	1 mark
Sorted Model ascending	1 mark

Page 7	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – May/June 2012	0417	21

Name

Candidate number, Centre number

	
	<h1>Tawara Star Car Sales</h1> <p><i>Introducing the new Micro range</i></p>
	<small>Candidate details</small>

Edit slides

Insert text as slides

1 mark

Slide titles 36 pt serif centred


Slide subtitles 18 point serif

Bullets aligned left and consistent

1 mark

Format slide 1 as title and subtitle

1 mark

	<h2>Latest technologies in engine design</h2>
	<ul style="list-style-type: none"> • <i>Compressed Natural Gas</i> • <i>Hybrid petrol / electric</i> • <i>Electric power</i> • <i>Hydrogen Gas Technology</i>
	<small>Candidate details</small>
	<small>2</small>

Audience notes 2 per page

1 mark



Page 8	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – May/June 2012	0417	21

Name

Candidate number, Centre number

Slide master
 Three thick lines drawn 1 mark
 Clipart star found and placed 1 mark
 Name and details bottom left 1 mark
 Slide numbers bottom right 1 mark
 No overlap master slide items or slide items 1 mark

	The new car for every family need
	<ul style="list-style-type: none"> • <i>The Micro and MicroB – two economical petrol engines</i> • <i>The MicroSE – air conditioning and alloy wheels</i> • <i>The MicroZed – latest diesel for power and economy</i> • <i>The MicroEco – the environmentally friendly electric alternative</i>
	4

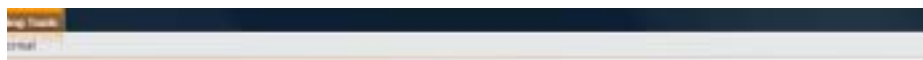
	Micro sales compared
	<p>Sold</p> 
	4

Create pie chart correctly 1 mark
 Place chart on slide 4 1 mark

Page 9	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – May/June 2012	0417	21

Name

Candidate number, Centre number



Single slide with presenter notes 1 mark
Add presenter notes 1 mark

Evidence document

Contact details

Mr Lucknow

Contact added with name, job title and address 2 marks

Company Principal

lucknow.g@cie.org.uk

Evidence of downloaded files saved in work area

Files stored 1 mark

Page 10	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – May/June 2012	0417	21

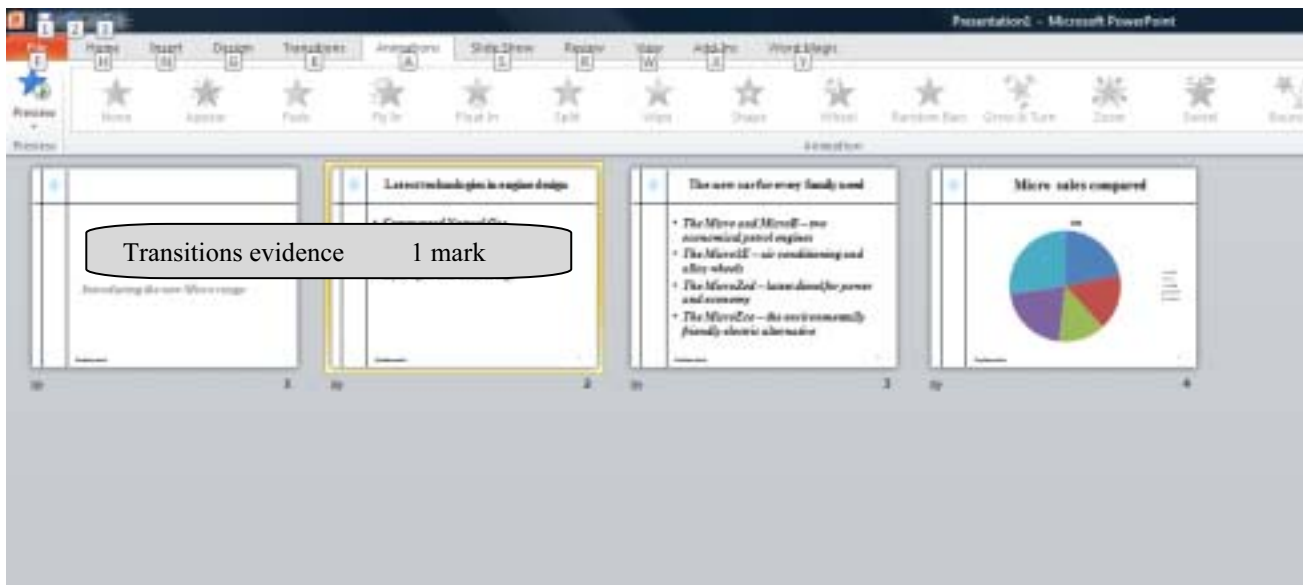
Name

Candidate number, Centre number

Database structure

Fields as given with automatic types with Solved as
 Boolean, date as dd/mm/yyyy 1 mark
 Price field stored as Currency / numeric 1 mark
 Discount_applied stored as numeric 2 dp 1 mark

Presentation transitions and animations



Page 11	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – May/June 2012	0417	21

Name

Candidate number, Centre number

The image shows a presentation slide titled "Latest technologies in engine design". The slide is part of a presentation software interface, with a toolbar at the top and a sidebar on the left. The slide content is as follows:

Latest technologies in engine design

- *Compressed Natural Gas*
- *Hybrid petrol / electric*
- *Electric power*
- *Hydrogen Gas Technology*

At the bottom of the slide, it says "Candidate details".

A callout box on the left side of the slide contains the text: "Animations evidence 1 mark".

Email with attachment.

E-mail	
To: Design.h@cie.org.uk	1 mark
BCC: Company Principal	1 mark
Subject: Interview article	1 mark
Message	1 mark
Document file attached	1 mark