

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**

0417/22

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.

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Name and candidate number

Centre number

- Slide master
- Three thick lines drawn 1 mark
- Clipart car found and placed 1 mark
- Name and details top right 1 mark
- Slide numbers top left 1 mark
- No overlap 1 mark

Star of Tawara Car Sales

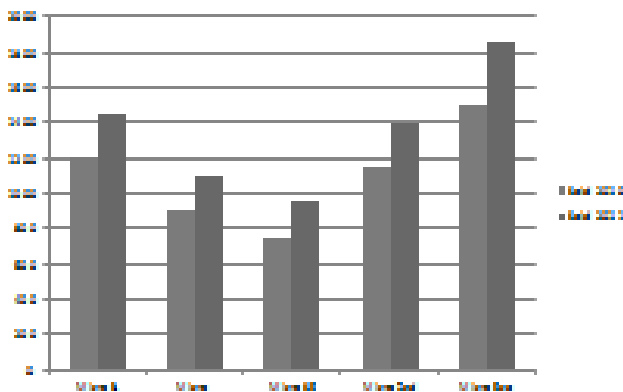
Introducing the new Micro range

- Format slide 1 as title and subtitle 1 mark
- Slide title 30 pt serif left
- Slide subtitle 20 pt serif left 1 mark



- Create vertical bar chart correctly 1 mark
- Chart identifies the two series 1 mark
- and place on correct slide 1 mark
- Slide four moved to slide 2 1 mark


Micro sales compared




Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
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Name and candidate number

Centre number

3		<small>Candidate details</small>	
	<p>Latest technologies in engine design</p> <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> 		
			<div style="border: 1px solid gray; border-radius: 15px; padding: 5px; display: inline-block;"> Insert text as slides 1 mark </div>
			<div style="border: 1px solid gray; border-radius: 15px; padding: 5px; display: inline-block;"> Audience notes 2 per page 1 mark </div>
			

4		<small>Candidate details</small>	
	<p>The new car for every family need</p> <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> 		
			<div style="border: 1px solid gray; border-radius: 15px; padding: 5px; display: inline-block;"> Bullets aligned left and consistent 1 mark </div>
			

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Name and candidate number

Header

Name and Candidate number left
centre number right aligned

1 mark

Centre number

Star of Award Approved Sales

Interview conducted by: name

- Page A4 Portrait 1 mark
- All margins 2 cms 1 mark
- Section break after titles 1 mark
- 2 columns and 1cm space 1 mark

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

small family car, the Micro, and drove my business forward.

- Title entry accurate, formatted and aligned 2 marks
- Subtitle entry accurate, formatted and aligned 2 marks

...ted to be an accountant and so studied finance for her degree. She became the company sales and 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.



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

- Image Correct image replaces text, placed and aligned to left margin 1 mark
- Resized to fill column with no distortion 1 mark
- Text wrapped round image 1 mark

...ngest of the children, the twins, ... servicing and repairs.

I was proud of what I had achieved and expect I would still be there but for two things. One was the education I gave to my children and the other was the launch of the Lola Micro range of cars.

It was pressure from them that made me ... title ... to ... of ... finance, technology and modern cars. Nothing in my old firm was computerised and I still don't like to rely ... 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.

- Body text format 14 pt, serif, Single ls and fully justified 1 mark
- Consistent paragraph spacing 1 mark

I have four children and I can be really proud of their educational successes. My eldest is Sanjeev and he followed a business studies course 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 Corporation. It was he who saw the potential of the

- Spellings corrected 1 mark

It was through these modernising infl...

- Footer Date left aligned, page number in centre 1 mark

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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 sales outlets in five major cities across Europe.

Two new technologies that Lola have 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.”

<u>The complete Micro Range</u>		
<i>Code</i>	<i>Model</i>	<i>Description</i>
EG0016934	MicroB	Entry model
ID0137637	Micro	Family car
SA1219259	MicroSE	Hybrid economy
PK5204785	MicroZed	Diesel power
AE0366581	MicroEco	Electric power

File found and placed correctly	1 mark
Text matches body text	1 mark
Top row only merged cells	1 mark
Top row underlined	1 mark
Top two rows only centred	1 mark
Second row italic	1 mark
All borders to print, text aligned top of cells	1 mark

No widows, orphans, split tables, blank pages	1 mark
Document complete with paragraphs intact	1 mark

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Name and candidate number

Centre number

List of MicroEco cars for sale

Location	VIN	Model	Power	EngineSize	Price	Colour	Sold
Hamburg	372C15423006	MicroEco	E	N/A	€13,000.00	Gold	No
Hamburg	373C15423020	MicroEco	E	N/A	€13,000.00	Silver	No
Hamburg	374A15423010	MicroEco	E	N/A	€13,000.00	Red	No
Hamburg	375A15423010	MicroEco	E	N/A	€13,000.00	Silver	No
Hamburg	375A15423015	MicroEco	E	N/A			
Hamburg	376B15423010	MicroEco	E	N/A			
Hamburg	377A15423014	MicroEco	E	N/A			
Hamburg	377B15423013	MicroEco	E	N/A			
London	376B15423011	MicroEco	E	N/A			
London	377A15423009	MicroEco	E	N/A			
London	377B15423006	MicroEco	E	N/A	€13,000.00	Green	No
Madrid	371C15423016	MicroEco	E	N/A	€13,000.00	Green	No
Madrid	372A15423009	MicroEco	E	N/A	€13,000.00	White	No
Madrid	372B15423009	MicroEco	E	N/A	€13,000.00	Red	No
Madrid	372C15423019	MicroEco	E	N/A	€13,000.00	Silver	No
Madrid	374A15423005	MicroEco	E	N/A	€13,000.00	Blue	No
Madrid	374A15423012	MicroEco	E	N/A	€13,000.00	Red	No
Madrid	376B15423008	MicroEco	E	N/A	€13,000.00	Silver	No
Madrid	376B15423016	MicroEco	E	N/A	€13,000.00	Red	No
Madrid	377A15423010	MicroEco	E	N/A	€13,000.00	White	No
Madrid	377B15423009	MicroEco	E	N/A	€13,000.00	White	No
Paris	372A15423006	MicroEco	E	N/A	€13,000.00	Silver	No
Paris	372A15423012	MicroEco	E	N/A	€13,000.00	White	No

Report heading correct	1 mark
Selection is MicroEco and sold=no	1 mark
Sorted in ascending order of location then VIN	1 mark
These 8 fields only	1 mark
All data and labels fully visible	1 mark
Orientation is landscape	1 mark
Fits one page wide	1 mark

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Name and candidate number		Centre number			Price	Colour	Sold
Location	VIN	Model	Power	EngineSize			
Paris	372A15423018	MicroEco	E	N/A	€13,000.00	Red	No
Paris	372B15423017	MicroEco	E	N/A	€13,000.00	Gold	No
Paris	373A15423006	MicroEco	E	N/A	€13,000.00	Silver	No
Paris	373B15423017	MicroEco	E	N/A	€13,000.00	Green	No
Paris	374C15423011	MicroEco	E	N/A	€13,000.00	Silver	No
Rotterdam	374B15423014	MicroEco	E	N/A	€13,000.00	Blue	No
Rotterdam	374C15423013	MicroEco	E	N/A	€13,000.00	White	No
Rotterdam	375B15423008	MicroEco	E	N/A	€13,000.00	Blue	No
Rotterdam	375B15423018	MicroEco	E	N/A	€13,000.00	Blue	No
Rotterdam	376C15423003	MicroEco	E	N/A	€13,000.00	Green	No
Rotterdam	377B15423012	MicroEco	E	N/A	€13,000.00	Red	No
Rotterdam	377C15423002	MicroEco	E	N/A	€13,000.00	Green	No
Rotterdam	377C15423016	MicroEco	E	N/A	€13,000.00	Blue	No
Rotterdam	377C15423018	MicroEco	E	N/A	€13,000.00	Red	No
Rotterdam	377C15423019	MicroEco	E	N/A	€13,000.00	Green	No
Rotterdam	377C15423020	MicroEco	E	N/A	€13,000.00	Gold	No

Number of cars for sale 39

Name, centre number, candidate number

22 December 2011

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Three records added	3 marks
Counts number of cars for sale	1 mark
Has label <i>Number of cars for sale</i>	1 mark
Details on right at foot of report	1 mark

Page 8	Mark Scheme: Teachers' version	Syllabus	Paper
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Report heading 2012 *Sales record for Villalobos* 1 mark
 Details on right at top of report 1 mark

Name and candidate number Centre number

2012 Sales record for Villalobos

Name, centre number and candidate number

SalesPerson	Model	Price	Discount	DateSold	SalePrice	Sold
Villalobos	Micro	€8,500.00	€1,700.00	01/03/2012	€6,800.00	Yes
Villalobos	Micro	€8,500.00	€1,275.00	03/04/2012	€7,225.00	Yes
Villalobos	Micro	€8,500.00	€1,275.00	04/03/2012	€7,225.00	Yes
Villalobos	MicroB	€7,500.00	€375.00	06/01/2012	€7,125.00	Yes
Villalobos	MicroB	€7,500.00	€1,125.00	01/01/2012	€6,375.00	Yes
Villalobos	MicroEco	€13,000.00	€650.00	01/03/2012	€12,350.00	Yes
Villalobos	MicroEco	€13,000.00	€2,000.00	10/01/2012	€10,400.00	Yes
Villalobos	MicroEco	€13,000.00	€0.00	10/02/2012	€13,000.00	Yes
Villalobos	MicroEco	€13,000.00	€2,000.00	10/01/2012	€10,400.00	Yes
Villalobos	MicroEco	€13,000.00	€0.00	10/02/2012	€13,000.00	Yes
Villalobos	MicroZed	€11,000.00	€1,100.00	02/02/2012	€9,900.00	Yes

Sold = Yes 1 mark
 Sales made in 2012 1 mark
 Sales person is Villalobos 1 mark

Total value of sales €103,800.00

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

Sum of sale price, below SalePrice column 1 mark
 Has label *Total value of sales* 1 mark

Discount correctly calculated 1 mark
 Sale price correctly calculated 1 mark
 Price, Discount, SalePrice and sum of sales all displayed in Euros with 2 dp 1 mark

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Name and candidate number

Centre number

Evidence document

Presentation transitions and animation

1
Evidence of transitions
1 mark

Star of Towers Car Sales

Investigating the new technology

Micro sales compared



Latest technologies in engine design

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

The new car for every family need

- The Model X – an electric plug-in hybrid
- The Model Y – an electric plug-in hybrid
- The Model Z – a gas plug-in hybrid
- The Model W – an electric plug-in hybrid

Latest technologies in engine design

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

Evidence of animation
1 mark

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Contact details

Contact added with name, job title, email address 2 marks

Kaif Asif CEO asif.k@cie.org.uk

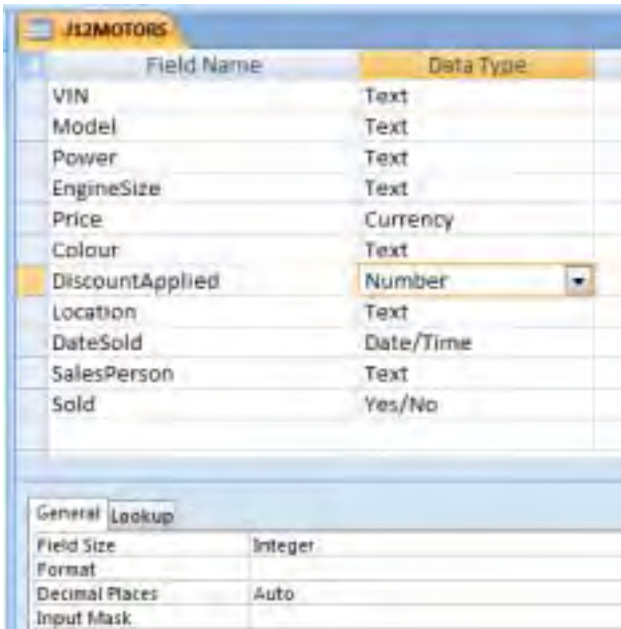
File list evidence

J12REPORT.RTF
 J12MOTORS.CSV
 J12MODELS.CSV
 J12SALES.RTF
 J12MICROSALES.CSV

List of six downloaded saved files 1 mark

Database structure

Fields as given with automatic types
 Sold as Boolean, date as dd/mm/yyyy (see report 2) 1 mark
 Price field Numeric or Currency 1 mark
 DiscountApplied stored as numeric /integer 1 mark



Email with attachment.

E-mail
 To: design.h@cie.org.uk 1 mark
 CC: CEO (Kaif Asif) 1 mark
 Subject: Sales Presentation 1 mark
 Message text 1 mark
 Presentation file only attached 1 mark

