

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.

| | | | |
|---------------|---------------------------------------|-----------------|--------------|
| Page 3 | Mark Scheme: Teachers' version | Syllabus | Paper |
| | IGCSE – May/June 2012 | 0417 | 22 |

Name and candidate number

Centre number

3
Candidate details

Latest technologies in engine design


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

Insert text as slides

1 mark

Audience notes 2 per page

1 mark




4
Candidate details

The new car for every family need

- *The Micro and MicroB – two economical petrol engines*
- *The MicroSE – air conditioning and alloy wheels*
- *The MicroZed – latest diesel for power and economy*
- *The MicroEco – the environmentally friendly electric alternative*

Bullets aligned left and consistent

1 mark



| | | | |
|--------|--------------------------------|----------|-------|
| Page 4 | Mark Scheme: Teachers' version | Syllabus | Paper |
| | IGCSE – May/June 2012 | 0417 | 22 |

Name and candidate number

Header

Centre number

Name and Candidate number left
centre number right aligned

1 mark

Star of Award Approved Sales

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

Interview conducted by: name

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... 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

Spellings corrected 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

It was through these modernising infl...

Footer Date left aligned, page number in centre 1 mark

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 |

| | | | |
|---------------|---------------------------------------|-----------------|--------------|
| Page 6 | Mark Scheme: Teachers' version | Syllabus | Paper |
| | IGCSE – May/June 2012 | 0417 | 22 |

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

22 December 2011

Page 1 of 2

| | | | |
|---------------|---------------------------------------|-----------------|--------------|
| Page 7 | Mark Scheme: Teachers' version | Syllabus | Paper |
| | IGCSE – May/June 2012 | 0417 | 22 |

| 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

Page 2 of 2

| | |
|--|---------|
| 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 |
| | IGCSE – May/June 2012 | 0417 | 22 |

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 | Sold = Yes | | 1 mark | €10,400.00 | Yes |
| Villalobos | MicroEco | Sales made in 2012 | | 1 mark | €13,000.00 | Yes |
| Villalobos | MicroEco | Sales person is Villalobos | | 1 mark | €10,400.00 | 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 |

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

Name and candidate number

Centre number

Evidence document

Presentation transitions and animation

1
Evidence of transitions
1 mark

Star of Tata Car Sales

Introducing the new Micro range

2

Micro sales compared



3

Latest technologies in engine design

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

4

The new car for every family need

- The Micro – low cost, low maintenance
- The Micro – low cost, low maintenance
- The Micro – low cost, low maintenance
- The Micro – low cost, low maintenance

Latest technologies in engine design

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

Evidence of animation
1 mark

| | | | |
|----------------|---------------------------------------|-----------------|--------------|
| Page 10 | Mark Scheme: Teachers' version | Syllabus | Paper |
| | IGCSE – May/June 2012 | 0417 | 22 |

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

| Field Name | Data Type |
|-----------------|-----------|
| VIN | Text |
| Model | Text |
| Power | Text |
| EngineSize | Text |
| Price | Currency |
| Colour | Text |
| DiscountApplied | Number |
| Location | Text |
| DateSold | Date/Time |
| SalesPerson | Text |
| Sold | Yes/No |

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