

**MARK SCHEME for the May/June 2011 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 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Header	
Centre no left and cand no right aligned	Candidate name centre 1 mark

<b>Scheme: Teachers' version</b>	<b>Syllabus</b>	<b>Paper</b>
<b>GCSE – May/June 2011</b>	<b>0417</b>	<b>22</b>

Centre number

Candidate number

# Export facilities at Port Pepar

## *New developments reported by: a candidate*

### **Location of Port Pepar**

The Northwest region of the country has a long coast line of over two thousand kilometres and existing ports in over forty locations. Many of these traditional ports are unsuited to the large container ships or bulk carriers. Several sites have been found for developing several new ports to handle the massive ships required by today's trade. One of the most promising is Pepar on the south eastern coast. This port has been developed specifically to handle the export of cars and cars of cars. These have been built to meet national and world demands for small, economical and environmentally friendly family transport.

Text moved 1 mark

One of the unique features of Port Pepar is the availability of large tracts of land. This is attractive to several customers who wish to set up tank farms or warehouse facilities on site. A car storage facility is built here while awaiting shipping. Cars will be brought in by rail and loaded into containers in a newly developed container yard.

Text deleted 1 mark

### **Development**

Port Pepar, a success story, is emerging as an important gateway for containers, bulk and general cargo. The short steaming time from the region's largest city, Port Pepar provides

Footer	
Date left	1 mark
filename right aligned	1 mark

access to the main trade lines in the north western region. Handling facilities are developed to manage the export of containers. The port has 31 berths in 31 countries on 5 continents. With a 54% stake, APM is the largest operator in Port Pepar.

Title entry accurate, formatted 36 point sans-serif, underscored and aligned centre 2 marks  
 Subtitle entry accurate, formatted 18 point sans-serif italic and centre aligned 2 marks

New subhead entered and formatted 1 mark  
 Subheads identified and formatted 12 pt italic, sans serif, centred 1 mark

### **The Waterfront**

The waterfront has a length of 1075 metres and a draft of 12 metres. There is an on-dock container yard to handle containers, a car storage facility, extensive back-up storage facilities, open stack yards, weigh bridges and dedicated rail sidings.

**Image**  
 Appropriate image found 1 mark  
 Placed correct position in text 1 mark  
 Aligned to left margin and resized to fill column width with no distortion 1 mark



Centre number

Candidate name

Candidate

Page layout  
Size A4  
Landscape 1 mark  
Margins 3 cms 1 mark

### Excellent Connectivity

Port Pepar is well connected by road and rail to the rest of the country. It is directly connected by the broad gauge rail network of the National Railways. Port Pepar has set up a joint venture with the National Railways – Pepar Rail Corporation Limited, making it possible to offer the most competitive rail freight and transit times in the western coast. New links have also been developed with new scheduled services being provided to the new manufacturing plant.

Port Pepar has built an 11 kilometre long four-lane expressway connecting the port to the national highway. The Government has undertaken a project to update the national highway.

Port Pepar has the most competitive rail freight rates coupled with excellent transit times as compared to other gateway ports on the West Coast. Port Pepar is now connected to its hinterland by the National Railways and is a major container depot. The port's connectivity project is a joint venture between the Pepar Rail Corporation Limited and the Ministry of Railways. Port Pepar has an equity stake of 39% in PRCL. The Port can handle incoming and outgoing trains simultaneously and the current capacity of the rail link is 22 trains per day. At present, the port is handling on an average 2 trains per day.

**Body text**  
Font serif, 12 point 1 mark  
Single ls, with 1 cm first line indent 2 marks  
Fully justified 1 mark  
All paragraphs intact 1 mark

Port Pepar has received double stacked container trains (March 2010), which have a capacity of carrying 180 cars as against 90 cars carried in a single stack train. At present, 11 container trains run to the port.

**Table**  
Created 1 mark  
Text entry 2 marks  
**Format contents**  
Format text, to match body font but 10 point size 1 mark  
Centre align and underscore top row text only 1 mark  
Merge cells and centre text 1 mark  
Shade specified rows only 1 mark  
Centre align text vertically 1 mark  
Print borders 1 mark

Port Pepar is a natural breakwater under adverse conditions. The tranquility of the wave height at Pepar has a peak tidal conditions.

Level	Tide	Code	Height
High	High Water Spring Tides	HHWS	+292 cm
Mean High	High Water	MHHW	+219 cm
Mean	Sea Level	MSL	+76 cm
Mean Low	Low Water	MLLW	-50 cm
Low	Low Water Spring Tides	LLWS	-101 cm

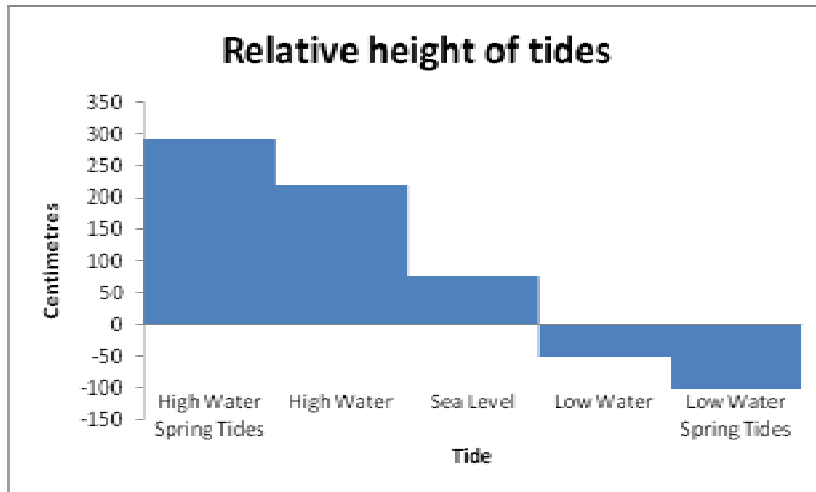
Note: All levels are with reference to Chart Datum

<b>Page 4</b>	<b>Mark Scheme: Teachers' version</b>	<b>Syllabus</b>	<b>Paper</b>
	<b>IGCSE – May/June 2011</b>	<b>0417</b>	<b>22</b>

Centre number

Candidate name

Candidate number



**Chart**

- Created from correct data and in correct place 1 mark
- Resized to fit within margins of column 1 mark
- Title 1 mark
- Series labels displayed in full 1 mark
- Axis titles **Centimetres** and **Tide** 1 mark
- No legend 1 mark

These favourable conditions at Port Peparad ensure easy and safe navigation of ships all year round. Thanks to the twin islands, Port Peparad can offer its services throughout the year, even during the monsoons, which provides an added advantage to its customers.

<b>Page 5</b>	<b>Mark Scheme: Teachers' version</b>	<b>Syllabus</b>	<b>Paper</b>
	<b>IGCSE – May/June 2011</b>	<b>0417</b>	<b>22</b>

Centre number

Candidate name

Candidate number

# Latest UK Delivery Manifest

Model	VIN	Fuel	Engine Size	Cost Price	Colour	Port	Distributor	Delivered
Micro	376B15423019	1	600	€850.00	White	Harwich	UKMI PLC	€935.00
Micro	376C15423008	1	600	€850.00	White	Harwich	UKMI PLC	€935.00
Micro	376C15423005	1	600	€850.00	Green	Harwich	UKMI PLC	€935.00
<b>Micro</b>	<b>377C15423018</b>	<b>1</b>	<b>600</b>	<b>€850.00</b>	<b>Red</b>	<b>Harwich</b>	<b>UKMI PLC</b>	<b>€935.00</b>
Micro	376C15423009	1	600	€850.00	Red	Harwich	UKMI PLC	€935.00
Micro	376B15423020	1	600	€850.00	Red	Harwich	UKMI PLC	€935.00
Micro	377B15423003	1	600	€850.00		Harwich	UKMI PLC	€935.00
Micro	377C15423006	1	600	€850.00		Harwich	UKMI PLC	€935.00
MicroB	376C15423001	1	500	€750.00	Green	Harwich	UKMI PLC	€825.00
MicroB	377A15423015	1	500	€750.00	White	Harwich	UKMI PLC	€825.00
MicroEco	377B15423006	4		€1,300.00	Green	Harwich	UKMI PLC	€1,430.00
MicroEco	377A15423009	4		€1,300.00	Red	Harwich	UKMI PLC	€1,430.00
MicroEco	376B15423011	4		€1,300.00	Blue	Harwich	UKMI PLC	€1,430.00
MicroSE	377A15423004	3	900	€1,200.00	Green	Harwich	UKMI PLC	€1,320.00
MicroSE	376B15423017	3	900	€1,200.00	Blue	Harwich	UKMI PLC	€1,320.00
<b>MicroSE</b>	<b>377C15423020</b>	<b>3</b>	<b>900</b>	<b>€1,200.00</b>	<b>Gold</b>	<b>Harwich</b>	<b>UKMI PLC</b>	<b>€1,320.00</b>
MicroSE	377A15423003	3	900	€1,200.00	Green	Harwich	UKMI PLC	€1,320.00
MicroSE	377B15423008	3	900	€1,200.00	Silver	Harwich	UKMI PLC	€1,320.00
MicroSE	377B15423014	3	900	€1,200.00	Red	Harwich	UKMI PLC	€1,320.00
MicroSE	377A15423001	3	900	€1,200.00	Gold	Harwich	UKMI PLC	€1,320.00
<b>MicroZed</b>	<b>377C15423019</b>	<b>2</b>	<b>1200</b>	<b>€1,100.00</b>	<b>Gold</b>	<b>Harwich</b>	<b>UKMI PLC</b>	<b>€1,210.00</b>
MicroZed	377A15423011	2	1200	€1,100.00	White	Harwich	UKMI PLC	€1,210.00
MicroZed	377B15423011	2	1200	€1,100.00	Blue	Harwich	UKMI PLC	€1,210.00
MicroZed	377B15423007	2	1200	€1,100.00	Green	Harwich	UKMI PLC	€1,210.00
MicroZed	376B15423005	2	1200	€1,100.00	White	Harwich	UKMI PLC	€1,210.00

Report title 1 mark

Page orientation landscape 1 mark  
 1 page wide 1 mark  
 Only these 9 fields (any order) 1 mark  
 Labels and data fully visible 1 mark

3 Added records 3 marks

Calculated field 2 marks  
 format with Euro sign and 2 dp 1 mark

Selected records 2 marks  
 UK (Harwich) and not Dispatched (26 records only)

Records sorted on model ascending 1 mark

Candidate details bottom left 1 mark

Name, Centre number, Candidate Number

Centre number

Candidate name

Candidate number

## Voltage must be checked before delivery

VIN	Model	Colour	Port		
366C15423008	MicroEco	Gold	Brest		
366C15423009	MicroEco	Gold	Brest		
366C15423013	MicroEco	Blue	Brest	FMD SA	No
366C15423018	MicroEco	Blue	Brest	FMD SA	No
365C15423010	MicroEco	White	Rotterdam	NMD	No
365C15423011	MicroEco	Green	Rotterdam	NMD	No
365C15423017	MicroEco	White	Rotterdam	NMD	No
366C15423001	MicroEco	Silver	Rotterdam	NMD	No
366C15423004	MicroEco	White	Rotterdam	NMD	No
366C15423017	MicroEco	Blue	Rotterdam	NMD	No
366C15423019	MicroEco	Gold	Rotterdam	NMD	No
366C15423006	MicroEco	White	Vigo	EMD SA	No

Report title 1 mark  
 Field selection and in specified order  
 And all fully visible 1 mark

Name Centre number, Candidate number

Number of cars to check 12

Record selection on VIN 2 marks  
 2 criteria 365C\* or 366C\*  
 selection on Fuel = 4 1 mark  
 Dispatched=No 1 mark  
 Field sort order Port then VIN ascending 2 marks

Count of records =12 2 marks  
 Label **Number of cars to check** 1 mark  
 Own details at bottom of report 1 mark

<b>Page 7</b>	<b>Mark Scheme: Teachers' version</b>	<b>Syllabus</b>	<b>Paper</b>
	<b>IGCSE – May/June 2011</b>	<b>0417</b>	<b>22</b>

Centre number Candidate name Candidate number

Evidence document  
Step 2 Contact entry

Add contact with job title  
[rizwan@cie.org.uk](mailto:rizwan@cie.org.uk)  
Development Manager 2 marks

Step 39 Database field structure screenshot here:

**Database structure**  
All fields and formats OK 1 mark  
Currency format for Cost price field 1 mark  
Dispatched as yes/no field 2 marks  
1 if numeric, 2 if validated entry yes/no

**Voltage must be checked before delivery**

VIN	Model	Colour	Year	Price	Status
WMC2H0000	Mercedes	Red	2000	10000	No
WMC2H0001	Mercedes	Blue	2000	10000	No
WMC2H0002	Mercedes	Red	2000	10000	No
WMC2H0003	Mercedes	Blue	2000	10000	No
WMC2H0004	Mercedes	White	2000	10000	No
WMC2H0005	Mercedes	White	2000	10000	No
WMC2H0006	Mercedes	White	2000	10000	No
WMC2H0007	Mercedes	White	2000	10000	No
WMC2H0008	Mercedes	White	2000	10000	No
WMC2H0009	Mercedes	White	2000	10000	No
WMC2H0010	Mercedes	White	2000	10000	No
WMC2H0011	Mercedes	White	2000	10000	No
WMC2H0012	Mercedes	White	2000	10000	No
WMC2H0013	Mercedes	White	2000	10000	No
WMC2H0014	Mercedes	White	2000	10000	No
WMC2H0015	Mercedes	White	2000	10000	No
WMC2H0016	Mercedes	White	2000	10000	No
WMC2H0017	Mercedes	White	2000	10000	No
WMC2H0018	Mercedes	White	2000	10000	No
WMC2H0019	Mercedes	White	2000	10000	No
WMC2H0020	Mercedes	White	2000	10000	No

Screenshot of report in browser view 1 mark

<b>Page 8</b>	<b>Mark Scheme: Teachers' version</b>	<b>Syllabus</b>	<b>Paper</b>
	<b>IGCSE – May/June 2011</b>	<b>0417</b>	<b>22</b>

Centre number

Candidate name

Candidate number

Step 50 e-mail contact details

**Correct addresses**

To: [Design.h@cie.org.uk](mailto:Design.h@cie.org.uk) 1 mark

Cc: Development Manager  
[rizwan@cie.org.uk](mailto:rizwan@cie.org.uk) 1 mark

**Correct subject**

Port facilities report 1 mark

**Content**

Personal details and  
 The draft report for your approval is attached. 1 mark

Document attached 1 mark

Step 51 Screenshot of files remaining in your work area.

Should not include

J11Evidence.rtf,

J11Port22.rtf,

J11Cars22.csv

Files deleted 1 mark

**Working files in view showing file types eg**

- J11Evidence9999,
- a db file,
- the text doc with new name,
- web page file

Working files in view  
 with file type showing 1 mark