UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2011 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 2011 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 2011	0417	21

Name and candidate number

Centre number

Dock facilities at Port Pepard

Report by: a name

A major regional port

existing ports in

traditional harbours

ships or bulk carri-

of the co has a h çoast line of over two sand kilometres

orty locations. Many of the suited to the large container y. New sites have been

found for dex the massive correctly One such po ratio maintained this region. Text wrap set

to handle the ex-

have been built to meet national and world demands for small, economical and environmentally friendly, family transport.

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Development

Port Pepard, a successful public – private enterprise, is emerging as an important gateway port on the south eastern coast for containers, bulk and liquid cargo. With less than ten hours steaming time from the region's largest city, Port Pepard provides excellent access to the main trade lines in the north western

region. Its handling facilities are developed to manage

the efficient transport of our cars. Port Pepard is operated by one of the largest container

terminal operators in the world. APM Terminals has operations spread over more than 50 terminals in 31 countries, on 5 continents. With a 54% stake, APM

Terminals is the largest shareho

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2 marks 2 marks

on-dock rail facility with dedicated sidings to handle bulk and break-bulk cargo. It also offers

including

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bridges 1 mark

na dedicated rail sidings.

ant Connectivity

Port 1 all connected by road and rail to the rest of the directly connected by the broad gauge rail National Railways. Port

New subhead text entered OK 1 mark Pepard Subheads identified +formatted,

Railw font, italic, 12pt sans-serif possible to offer the most competitive rail freight and

transit times in the western coast. The hinterland

Body text 10 point serif, fully justified, 1.5 linespace 2 marks Two columns 1 cm gap 1 mark

manufacturing plant.

Port Pepard has built an 11 kilometre long four-lane expressway connecting the port to the national highway. The Government has undertaken a project to construct a central spine road, extending up to Port Pepard.

Port Pepard has the most competitive rail freight rates coupled with excellent transit times as compared to other gateway ports on the West Coast. Port Pepard is now connected to its hinterland by the broad gauge rail network of the National Railways and is now onnected by rail to all the major Inland container epots in the North West. The broad gauge rail vity project has been undertaken by Pepard Rail Corporation wited (PRCL) promoted by Pepard

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Name and candidate number

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Port Pepard is the first port in this country to receive double stacked container trains (March 2006), which have a capacity of carrying 180TEUs as against 90TEUs carried in a single stack train. At present, the double stack container trains run to the inland railhead.

Oceanographic Conditions

Port Pepard is protected by two islands, which act as a natural breakwater making the port safe in all weather conditions. The presence of these islands also leads to the tranquillity of the water in the harbour. It also ensures the wave height is less than 0.5m most of the time. Port Pepard has now increased the draft to 14.5 metres from 12.5 metres. The water currents are between 2.5 to 3 knots during peak tidal conditions.

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

Storage Developments

One of the unique features of Port Pepard 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 to hold cars while awaiting shipping. Cars are brought in by rail and loaded into containers in a newly developed container storage facility. This was developed in preparation for the launch of the new Micro range of cars which we believe will meet world wide requirements for environmentally friendly,

Centre number personal transport that is easily afforded by families of modest incomes.

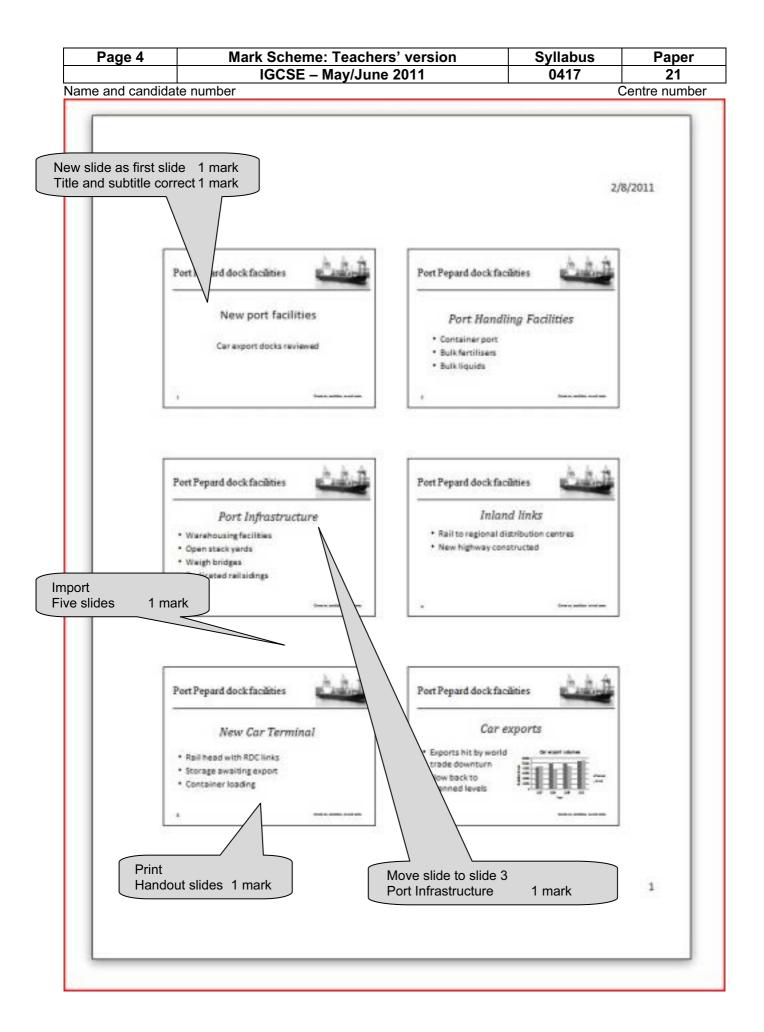
Car exports

We have come through some difficult years for manufacturing and show here how our planned exports of cars were actually met through the recent years of world economic downturn. It will be seen that we came through that and are meeting export targets again as world trade has picked up.

One of the order o							
Cars exported through Port Pepard							
Year \	2007	2008	2009	2010			
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Actual	45500	39500	45500	56000			
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Page layout
A4 Portrait 1 mark
Margins all 2 cm
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Name and candidate number

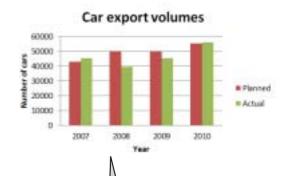
Centre number

Port Pepard dock facilities



Car exports

- Exports hit by world trade downturn
- Now back to planned levels



Centre no, candidate no and name

6

Master slide

All items created and appear on all slides

Correct image placed top right 1 mark
Thick horizontal line across slide below image 1 mark
Text **Port Pepard dock facilities** serif
36 point black above line on left 1 mark

Name bottom right 12 point serif font 1 mark
Slide no bottom left 1 mark
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Chart source identified
Comparative vertical bar chart
Chart titles created correctly and
series labels displayed in full
Chart placed correctly

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Single slide 1 mark

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Page 6	Ma		e: Teachers'		Syllab		Paper		
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3 January 2010							Page 1 of 2
VIN	Model	Power	Engine Size	Cost Price Colour	Port	Distributor	Delivered Price
372B15423017	MicroEco	E	N/A	€1,300.00 Gold	Brest	FMD SA	€1,500.00
372C15423009	MicroSE	Н	900	€1,200.00 Blue	Brest	FMD SA	€1,400.00
372C15423011	MicroZed	D	1200	€1,100.00 Gold	Brest	FMD SA	€1,300.00
372C15423016	MicroZed	D	1200	€1,100.00 Red	Brest	FMD SA	€1,300.00
373A15423006	MicroEco	E	N/A	€1,300.00 Silver	Brest	FMD SA	€1,500.00
373B15423017	MicroEco	E	N/A	€1,300.00 Green	Brest	FMD SA	€1,500.00
374A15423002	Micro	G	600	€850.00 Blue	Brest	FMD SA	€1,050.00
374A15423006	MicroZed	D	1200	€1,100.00 Blue	Brest	FMD SA	€1,300.00
374A15423014	MicroSE	Н	900	€1,200.00 White	Brest	FMD SA	€1,400.00
374B15423006	Micro	G	600	€850.00 Green	Brest	FMD SA	€1,050.00
374B15423015	MicroSE	Н	900	€1,200.00 Silver	Brest	FMD SA	€1,400.00
374C15423011	MicroEco	E	N/A	€1,300.00 Silver	Brest	FMD SA	€1,500.00
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376B15423015	MicroB	G	500	€750.00 White	Brest	FMD SA	€950.00
376C15423002	MicroZed	D	1200	€1,100.00 Blue	Brest	FMD SA	€1,300.00
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Name and candidate number

Centre number

Warning

Check charge voltage before delivery

VIN: 371C15423016 Model: MicroEco Port:Vigo

Distributor: EMD SA Name, centre no, cand no

Warning

Check charge voltage before delivery

VIN: 372A15423009 Model: MicroEco Port:Vigo

Distributor: EMD SA Name, centre no, cand no

Warning

Check charge voltage before delivery

VIN: 372B15423009 Model: MicroEco Port:Vigo

Distributor: EMD SA Name, centre no, cand no

Warning

Check charge voltage before delivery VIN: 372C15423019

Model: MicroEco Port:Vigo Distributor: EM SA Name, centre no, and no

Warning

Check charge voltage before delivery

VIN: 374A15423005 Model: MicroEco Port:Vigo

Distributor: EMD SA Name, centre no, cand no

Warning

Check charge voltage VIN: 374A15423012

Model: MicroEco

Port:Vigo

Distributor: EMD SA Name, centre no, can

Record selection criteria

VIN = 37*

Country = Spain (Vigo)

Power = E (MicroEco) 3 marks

(eight records)

Labels 2 side by side 1 mark

Warning

Check charge voltage before delivery

VIN: 376B15423016 Model: MicroEco Port:Vigo

Distributor: EMD SA Name, centre no, cand no

Warning

Check charge voltage before delivery

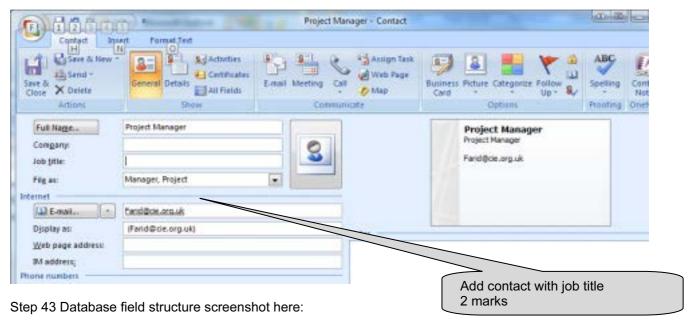
VIN: 377A 423010
Model: Microco
Port: Vigo
Distributor: E
Name, centre

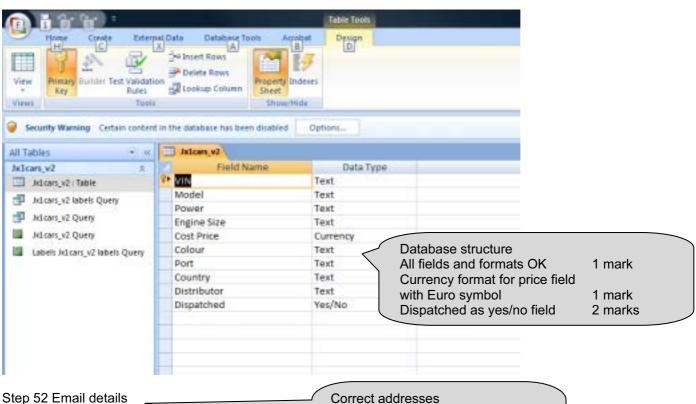
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Name and candidate	e number			Centre number
Candidate name				
Centre number				
Candidate number				

Step 2 Contact entry





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To design.h@cie.org.uk 1 mark

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Cc Project Manager

Document attached

Correct subject

and content