CAMBRIDGE INTERNATIONAL EXAMINATIONS

Cambridge International General Certificate of Secondary Education

MARK SCHEME for the October/November 2014 series

0417 INFORMATION AND COMMUNICATION TECHNOLOGY

0417/02

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

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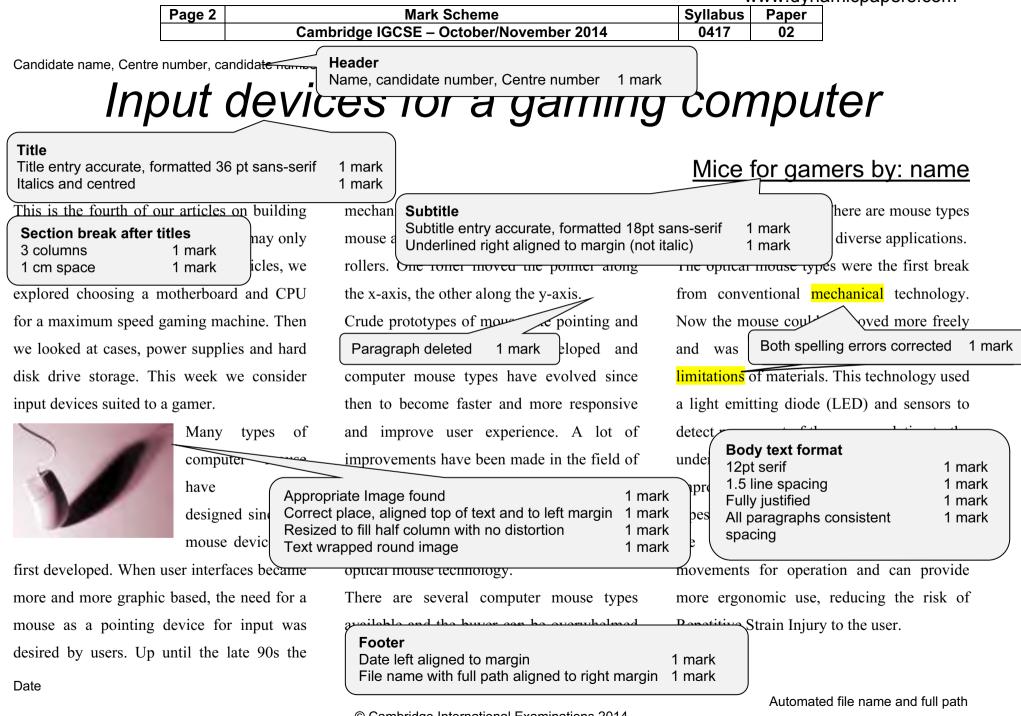
Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

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Candidate name, Centre number, candidate number An improvement over the optical mouse was then the laser mouse. This device used an infrared use laser instead of an LED light. This improves ove the resolution and makes the mouse more a w responsive, improving navigation You capabilities. Apart from these, there are abo several specialised and novel computer move mouse types. There are mice designed for nee gamers. They have extra buttons on the sides to help compres have better and Bullets applied to specified paragraphs 1 mark

atmosphere. In fact, one mouse takes it to the extreme by opening up as a clamshell and offering a fully-fledged joystick inside!

The development of the cordless mouse means you no longer have to wrestle with that irritating cord that always keeps getting in the way. The disadvantage is that you have to keep replacing the batteries. There are several different computer mouse types being developed by companies all the time. One of them is the tactile mouse, which allows the user to feel vibrations as the mouse is moved over certain areas, like over the boundary of a window frame.

You can find a computer mouse for just about any use. To figure out what kind of mouse would work best with your PC, you need to know your mouse options:

- Mechanical mouse: Houses a hard
 rubber ball that rolls as the mouse is
 moved. Sensors inside the mouse
 body detect the movement and
 translate it into information that the
 computer interprets.
- Optical mouse: Uses a sensor to

Page layout A4 (mark from screenshot) landscape Left and right margins 1.5cm Top and bottom margins 2cm	1 mark	
(mark from screenshot) No widows, orphans, or blank pages Document complete with paragraphs intact	1 mark 1 mark 1 mark	

types, the mouse relays a signal to a base station wired to the computer's mouse port. The cordless mouse requires power, which comes in the form of batteries.

- A mouse with many buttons: The extra buttons can be programmed to do specific things, such as navigate the Web or turn pages when you're reading a document. The typical programmable mouse has about five buttons.
- Stylus mouse: Another mouse mutation enjoyed by the artistic type is the stylus mouse, which looks like a pen and draws on a special pad.
- Cordless 3-D mouse: This kind of mouse can be pointed at the computer screen like a TV remote control.

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Candidate name, Centre number, candidate number Compare these three gaming mice and their

features. One of them is bound to suit your

needs!

Make	Razer	Logitech	Alienware
Model	Imperator	Gaming Mouse G700	TactX Mouse
Features	 6400dpi 4G Dual Sensor System Rubberised contoured thumbgrip for added control Ergonomic right handed design Adjustable side buttons On-board memory Rapid acceleration Seven programmable buttons On-the-fly Sensitivity adjustment Zero-acoustic Ultra slick mouse feet 	 200-5700dpi Image processing: 12 megapixels / second Thirteen programmable controls Natural curves to fit the hand effortlessly Dynamic coefficient of friction Acceleration 30G max up to 4.19m/second 	 5000dpi laser Engine Smooth scrolling and movements Nine programmable buttons Dual vertical scroll modes Ergonomic design for long, comfortable play

/			
(Table:		
	Table resized to fill page width	1 mark	
	Text inserted correctly in column 2	1 mark	
	Text inserted correctly in column 3	1 mark	
	Text inserted correctly in column 4	1 mark	
	Font matches body text (12pt serif)	1 mark	
	Left column text bold	1 mark	
	Top two rows only shaded light grey	1 mark	
	All gridlines printed. Outside lines only thick e.g. 3 point	1 mark)
\mathbf{X}			

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	Repo	ort heading cor	rect 1 mark	:						
		T	wo records addec	 d with no erro	ors 2 marks			m_Value eld calcu	e field head Ilated	ding 1 mark 1 mark
Order fo	or new mice									$\overline{}$
Make Acer	Model Ferrari	Features	Connection Wireless	Buttons 2	Programmable No	Gaming (No	Cost_Price €24.74	Stock 9	Reorder 5	Item_Value €123.70
Acer Creative	Camaro Black Fatal1ty		Wireless Wired	2	No Yes	No Yes	€23.99 €23.99	9 6	5 5	€119.95 €119.95
Cyborg	R.A.T. 9		Wired	2	No	Yes	€62.35	9	5	€311.75
Eclipse	Touch mouse		Wired		No	No	€33.99	4	5	€169.95
Hippus	Hand shoe	stress free	Wired		No	No	€25.99	5	5	€129.95
Logitech	G700		Wireless	9	Yes	Yes	€89.99	3	5	€449.95
Logitech	Performance MX		Dual	4	No	No	€64.99	5	5	€324.95
Logitech	M105		Wired	2	No	No	€12.99	2	5	€64.95
Razer	Deathadder	Ergonomic	Wired		No	Yes	€26.99	3	5	€134.95
Razer	Taipan	Ambidextrous	Wired	9	Yes	Yes	€27.99	7	5	€139.95
Value of order €2,090.00					€2,090.00					
			Stock le	ss than 10	1 mark					
	Sorted in asce	ending order o	f Make 1 mark				Order va (mark fr			1 mark
							Label Va	alue of	order	1 mark
	All fields except Notes 1 mark									
All data and labels fully visible 1 mark Currency values all Euros 2dp 1 mark						dp 1 mark				
	Fits one page	•			1 mark)
	Orientation is				1 mark					
			didate number on	left below re	eport 1 mark					

Candidate name, Centre number and candidate number

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Mice for Gamers

Make:LogitechModel:G700Connection:WirelessRetail Price:€107.99Notes:

Candidate name, Centre number, candidate number

Mice for Gamers

Make:	Razer			
Model:	Naga Epic			
Connection:	Dual			
Retail Price:	€65.99			
Notes:	Features downloadable in-game			
addons for most MMO games.				

Candidate name, Centre number, candidate number

Mice for Gamers

Make:RazerModel:The Old RepublicConnection:WirelessRetail Price:€65.99Notes:The Old Republic Gaming Mouse willexecute battle plans faster with 17 buttons at yourfingertips.

Candidate name, Centre number, candidate number

Mice for Gamers

Make:RazerModel:NagaConnection:WirelessRetail Price:€65.99Notes:

Candidate name, Centre number, candidate number

Mice for Gamers

Make:RazerModel:MambaConnection:DualRetail Price:€40.79

Notes: Unrivalled gaming grade wireless technology means the Razer mamba performs as well cordless as it does corded giving you utter freedom of motion whilst you win gloriously in games.

Candidate name, Centre number, candidate number

Selection Wireless or Dual	1 mark
and gaming	1 mark
Retail Price calculated	1 mark
Sorted on Retail Price descending order	1 mark
Two labels side by side layout in portrait	1 mark

Mice for Gamers

Make:RazerModel:ImperatorConnection:DualRetail Price:€65.99Notes:The Imperator is fitted with an ultra -
precise 4G Dual Sensor system that makes use of
both a laser and an optical sensor to enhance
tracking precision.

Candidate name, Centre number, candidate number

Mice for Gamers

Make:	Razer
Model:	Orochi
Connection:	Dual`
Retail Price:	€41.99
Notes:	Bluetooth connectivity to most laptop
computers.	

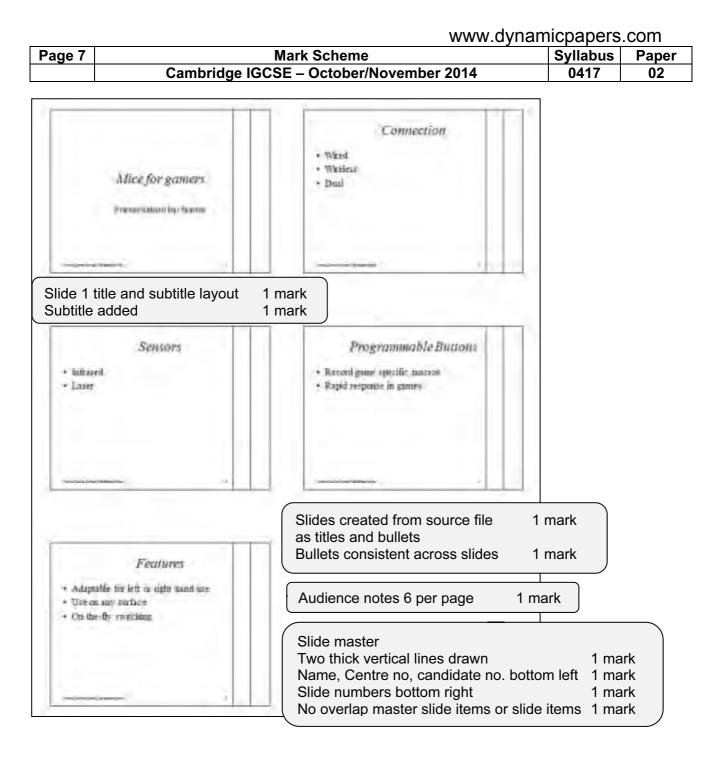
Candidate name, Centre number, candidate number

Mice for Gamers

Make:	Razer				
Model:	Ouroboros				
Connection:	Wireless				
Retail Price:	€31.19				
Notes:	Interchangeable side panels make				
this suitable for left or right handed users. Adjustable					
size to suit different hands make for minimised					
fatigue and maximised comfort.					

Candidate name, Centre number, candidate number

/		
	Labels have heading in larger font	1 mark
	Five specified field contents	1 mark
	Appropriate field labels added	1 mark
	Candidate details at bottom of label	1 mark



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Candidate name, Centre number, candidate number

Step 1 – Contact details stored in address book

	* 构 正	Contraction of the	a (b) =
Contact Internet Same & Serve & Herry - Same & X Deters Extrins	General Defaits Gaze Poids	Call Send - Senter II Call Send - Senter II Class X Deliter	sect Farrant Test Developer
Pull Name	Jay jodin	Fut Hame_	Anh Nguyen
iob title:	Etitoi	Company: Job Title	Witter
File as:	iosiin, Jay	Tile at:	Nguyen, Anh.
Internet		Internet	
LLI E-mail	1.login@de.org.ik	Li t-mat	A.Novien@de.arp.ok
Display as	Jay Joslin (Lioslin@cie.org.uk)	Display as:	Anh Nguyen (A.Nguyen@ite.org.uk)

Contacts added

1 mark



Step 2 – Email group

Categoria - AliC Constants Cons	Distribution List Burit Formal fo	at Developer			- 10
lanh Nguyen (A.Sigujen ©cie.org.uk) A.Ngujen ©cie.org.uk I laspal Singh (LSingh @cie.org.uk) LSingh @cie.org.uk	all and Select Schedure Hone Control of Select Schedure Hone Control of Select Schedure Hone Control of Select Select Schedure Hone Control of Select Select Select Select Schedure Sch	S-asi Meeting	Follow Lta -	Sterrig	
	Anin Nguyen (A.Sigupan@cie.org.uk) Jaspal Singin (I.Singin@cie.org.uk)	A.Nguyen@cie.o 15ingh@cie.org	na#		-

oup created 1 mark

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Candidate name, Centre number, candidate number

Steps 4 and 5 - Page size and layout evidence

Page Setup 7	Paper size A4 Mark from screenshot
Page Setup Margine Too: I.5 cm Bottom: I.5 cm Left: 2 cm Bottom: Left: 2 cm Ggtter pointion: Left Orientation Pages Multiple pages: Normal Preview Apply to: Whole document CK Ca	Margins setting and orientation evidence Mark from screenshot

	www.dynamicpapers.com		.com
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Candidate name, Centre number, candidate number

Step 28 – Database field structure

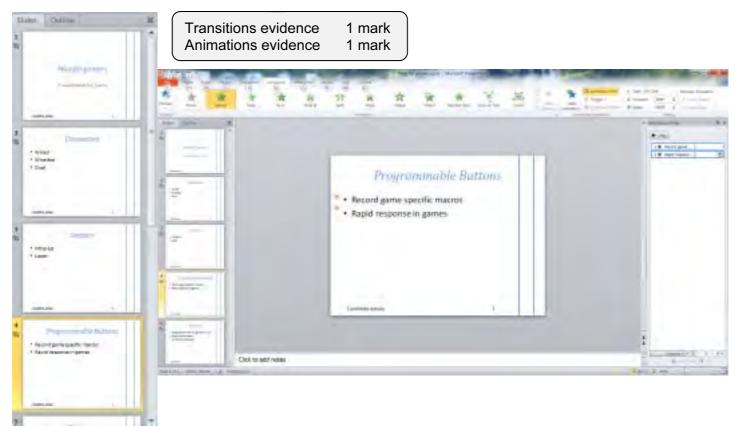
Field Name	Data Type
Make	Short Text
Model	Short Text
Features	Short Text
Connection	Short Text
Buttons	Number
Programmable	Yes/No
Gaming	Yes/No
Cost_Price	Currency
Stock	Number
Reorder	Number
Notes	Long Text

۰.			``
	Fields as given with correct data types	1 mark	
	Min_Stock level field not imported	1 mark	
	Cost_Price field number / Currency	1 mark	
	Programmable and Gaming as Boolean	1 mark	
	Boolean fields displayed as		
	Yes/No or checkbox in report	1 mark	
	Notes text or memo (long text)	1 mark	

Step 32 – Automatic calculation of the Value of order

1			Field calculation evidence
	Value of order	=Sum([Item_Value])	

Step 42 – Transitions and animations evidence



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Candidate name, Centre number, candidate number

Step 46 – Email message

Message Ir						
		ess Check k Names Include © Optio				
Send Cc Account • Subject:	design.h@cie.org.uk ⊞ Hardware team Draft article	Message to design.h@cie.org.uk Copied to group Subject correct	1 mark 1 mark 1 mark			
Attached:	Input device report.odt (15 KB)	Attached file Message content	1 mark 1 mark			
Candidate name Centre number Candidate numbe	er					

The document for your editorial comments is attached.