# MARK SCHEME for the May/June 2015 series

# 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.

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entertain people but they can also educate, inform, persuade and stimulate the user. Games are categorised into commonly used video game genres which are mainly based on their gameplay, interaction and category.

Aggressive competition between manufacturers has resulted in the superior features we have today. Today's games are increasingly realistic and technologically advanced. They feature richly textured, full-colour graphics, amazing sound and complex interaction between player

## Table

New table column in correct position	1 mark
Data entry 100% accurate	1 mark
Top row cells merged, heading centred	1 mark
Top row bold and italic only	1 mark
Second row bold, centred only	1 mark
Font matches body text, text within column	1 mark
Text on one line, outline border displayed	1 mark

movie, the difference being that the gamer controls the action!

Some video games have been criticised for glorifying violence, cruelty, and crime and exposing children to these elements. There are concerns that children who play violent video games may have a tendency to behave more aggressively. This has led to a voluntary rating system being adopted by the industry.

The Entertainment Software Rating Board (ESRB) ratings provide information about the

content in video games so consumers, especially parents, can make informed choices. Rating categories suggest age appropriateness and are as follows:

Rating Categories					
RATING	MEANING	AGE			
EC	Early Childhood	Young children			
E10	Everyone	All ages			
E10+	Everyone 10+	10 and over			
Т	Teen	13 and over			
Μ	Mature	17 and over			
AO	Adults Only	18 and over			
RP	Rating Pending	Not assigned			

# **Online Gaming**

Online gaming is one of the most popular entertainment activities on the World Wide Web. With the evolution of advanced Internet technologies, and cheaper and more accessible broadband connectivity, the number of younger web users has increased, resulting in a demand for online games across the continents. Many

3pt to 4pt outside border applied to paragraph Light grey shading

earn advertising revenues.

The launch of World of Warcraft prompted console giants such as Sony, Microsoft and Nintendo to produce advanced gaming consoles and gaming software that allowed users to play against one another online. This brought multiCentre number, Candidate number player games to the console environment and allowed users to play with others anywhere in the world.

# Accessories

There are a wide range of accessories available which are designed to enhance the gaming experience and make the action more enjoyable and realistic. From gaming chairs with inbuilt sound and vibrating capabilities, to gaming headsets and steering wheel controllers for use with driving games, there are numerous accessories to help people get the most out of their gaming session.

# **Global Sales**

Video games have never been more popular. The industry is worth around \$80 billion worldwide, which matches the global film industry. The biggest titles comfortably out earn blockbuster movies. However the sale of consoles and video games has seen a steady

1 mark 1 mark recent years and retail sales are down The gaming world is changing. more widely used for gaming, more

games are available for download and consoles have more functions than just gaming.

Dedicated games consoles are expensive and non-portable so it is not surprising that industry growth is coming from other sources. Gaming on tablets and smartphones is growing rapidly,

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as are games played through web browsers and social-networking sites. Dedicated gamers believe the smartphone or tablet screen cannot match the experience of gaming on a highpowered, dedicated device in front of a large television screen. Time will tell whether the traditional games console can survive.

# **Developments**

The development of new consoles usually occurs in five to six year cycles. Some believe that the latest eighth generation machines may be the last of the home video game consoles. Could it be curtains for consoles?

We live in a world where social networking and interactive gameplay are now mainstream activities. Video gaming takes place between gamers all across the world and there is a move towards playing console-quality games through a web browser or a cloud-based gaming service. Some consider this gameplay experience to be comparable or even better than playing the game on a console or on a high-powered PC. These games can be played on any Internetenabled device, even tablets and smartphones.

Modern video game consoles do so much more than play games. Manufacturers are keen to promote their consoles as complete home entertainment systems which stream films, play live TV, place video calls and browse the internet. These additional multimedia features and functions greatly enhance the functionality and everyday use of the game console. With these developments they are set to continue as an important source of leisure and entertainment, education and social interaction for many years to come.

social interaction

Centre number. Candidate number

Paragraph moved to correct position 1 mark

<b>Page layout</b> Consistent spacing with 12pt line space after each	
paragraph, subheading, list and table	1 mark
No widows or orphans, no split lists or tables, no blank pages Document complete/paragraphs intact	1 mark 1 mark

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	entry 100% accurate 1 mar	Landscape, fully visible, 1 page wid North_America and Global displaye Candidate name, Centre number an	e d to 2 nd can		1 mark 1 mark 1 mark		Contra condici	
					I		Centre number, Candid	
Chart_position	Game	Publisher	Platf		North	_America		rket_share
27	Gran Turismo 3: A-Spec	Sony Computer Entertainment	PS2	Racing		6.85	14.98	46%
42	Gran Turismo 4	Sony Computer Entertainment	PS2	Racing		3.01	11.66	26%
47	Gran Turismo	Sony Computer Entertainment	PS	Racing		4.02	10.95	37%
49	Gran Turismo 5	Sony Computer Entertainment	PS3	Racing		2.74		26%
60	Gran Turismo 2	Sony Computer Entertainment	PS	Racing	Ca	Iculated fi	ield	41%
86	Need for Speed Underground	Electronic Arts	PS2	Racing			% accurate 1 mark	45%
97	Need for Speed Underground 2	Electronic Arts	PS2	Racing		Iculated fie		39%
109	FIFA Soccer 12 S	earch	PS3	Sports		matted %		12%
156	Madden NFL 2004	latform = PS, PS2, PS3 1 mark	> PS2	Sports		) decimal i		81%
174 180	Tony Hawk's Pro Skater G	enre = Sports or Racing 1 mark	PS PS3	Sports			-	
180	FIFA Soccer 11 Madden NFL 06	hart position is <=300 1 mark	PSS PS2	Sports Sports		0.58 3.98	4.98 4.91	
184 191						2.57	4.91	54%
191 194	Crash Team Racing	Sony Computer Entertainment Vivendi Games	PS PS2	Racing Racing		1.73	4.79	37%
194	Tana	att dat an	PS	Sports		3.05	4.68	65%
207	Madd Changed from 566 to '	lectronic Arts	PS2	Sports		4.18	4.53	92%
207	Madden NFL 07	Electronic Arts	PS2	Sports		3.63	4.33	92 <i>%</i> 81%
210	Tony Hawk's Pro Skater 3	Activision	PS2	Sports		2.66	4.45	60%
210	Winning Eleven: Pro Evolution Soci		PS2	Sports		0.10	4.39	2%
217	Need for Speed: Most Wanted	Electronic Arts	PS2	Racing		2.03	4.35	46%
215 222	FIFA Soccer 14	Electronic Arts	PS3	Sports		0.46	4.37	40%
228	FIFA Soccer 06	electronic Arts	PS2	Sports		0.78	4.21	19%
237	Madden NFL 2003					3.36	4.14	81%
238	Gran Turismo 5 Prologue	2 records added		2 marks		1.25	4.14	30%
242	FIFA 07 Soccer	Sorted by Chart position ascending	a	1 mark		0.71	4.11	17%
250	World Soccer Winning Eleven 9	Specified fields, in correct order	3	1 mark s		0.12	4.06	3%
261	Tony Hawk's Underground	Activision	PSZ	sports		2.29	3.90	59%
266	World Soccer Winning Eleven 8 Int		PS2	Sports		0.16	3.85	4%
273	MotorStorm	Sony Computer Entertainment	PS3	Racing		1.50	3.79	40%
283	FIFA Soccer 2005	Electronic Arts	PS2	Sports		0.58	3.70	16%
288	Tony Hawk's Pro Skater 4	Activision	PS2	Sports		2.13	3.67	58%
295	Pro Evolution Soccer 2008	Konami Digital Entertainment	PS2	Sports		0.05	3.63	1%
300	The Simpsons: Road Rage	Electronic Arts	PS2	Racing		2.02	3.61	56%

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$\underline{}$	try 100% accurate 1 mark st selling Mario title	25	Search Game is Publisher Global is	ris Nintendo	1 mark 1 mark 1 mark
Game	-	lease_year	Platform	Publisher	Global
New Super I		2006	DS	Nintendo	29.28
Mario Kart [		2005	DS	Nintendo	22.73
Super Maric	0 64	2004	DS	Nintendo	10.00
Super Maric		1989	GB	Nintendo	18.14
Super Maric	Land 2: 6 Golden Coins	1992	GB	Nintendo	11.18
Super Mario	0 64	1996	N64	Nintendo	11.89
Super Maric	Bros.	1985	NES	Nintendo	40.24
Super Maric	Bros. 3	1988	NES	Nintendo	17.28
Super Maric	World	1990	SNES	Nintendo	20.61
Super Maric	All-Stars	1993	SNES	Nintendo	10.55
Mario Kart \	Nii	2008	Wii	Nintendo	34.12
New Super I	Mario Bros. Wii	2009	Wii	Nintendo	27.06
Super Maric	o Galaxy	2007		Nintendo	10.97
Nama Cant	re number, candidate number			Total sales (millions)	264
Specifie Portrait,	<i>Platform</i> ascending then <i>Global</i> d fields any order 1 page wide, candidate name, ( at bottom of report	_	per and candio	1 mark 1 mark date 1 mark	
Step 41 Ma	aster slide <b>screenshot</b>		Correct posi formatted to	otal of <i>Global</i> tion and 0 decimal places is 100% accurate	1 mark 1 mark 1 mark
Name, Cent	Click to edit Mast	er title	style	n 🌒	
2.00	ick to edit Master text styles - Second level • Third level – Fourth level » Fifth level				
			11/99/2	DC-4	





### Print

Slides printed as hand outs six to a page and single slide print out of Home Console Sales 2013 slide 1 mark

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#### **EVIDENCE DOCUMENT**

Step 4 Paper size screenshot evidence Step 5 Margin screenshot evidence The state of the s 2 × 7 × Page Setup Page Setup Paper Layout Margins Margins Paper Layout Margins Paper size: ÷ Sottom: 2 cm -Inp: 2.00 A4 ٠ Left: 4 1.5 cm 4 1.5 cm **Bight**: Width: 29.7 cm ÷ ٠ 1 Gutter: 0 cm Gutter position: teft Height: 21 cm ÷

Screenshots of settings for Page layout of report	
A4 and Landscape	1 mark
Margins top and bottom 2cm, left and right 1.5cm	1 mark
Accept top and bottom 0.79", left and right 0.59"	

#### Step 31 Database field structure screenshot

Field Name	Data Type		
Chart_position	Number		
Game	Text		
Platform	Text		
Release_year	Number	Database structure	
Génre	Text		1 morte
Publisher	Text	Correct field names and data types as given	1 mark
North_America	Number		
Europe	Number		
Japan	Number		
Rest_of_World	Number		
Global	Number		

#### Step 51 contact/address book screenshot evidence

P New Contact		🚥 Actions 🗸	/ Edit Details	TE As
All Contacts (2) Deleted Contacts	Sharif Tha s.thabo@c	77 - Andrewski -	Sharif Thabo	
		Iress Book/Contacts Itact entry Sharif Thabo,	s.thabo@cie.org.uk	1 mark

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Step 54 Place a screenshot of the email showing attachment here:

To design.h@cie.org.uk	To: design.h@cie.org.uk cc: s.thabo@cie.org.uk	1 mark 1 mark
Game Console Report	Subject: <i>Game Console Report</i> Only document attached, appropriate file	1 mark
Name Centre Number Candidate Number	extension (not original or rtf) Message text correct	1 mark 1 mark
The amended report is attached	d for your approval.	
Games Report.odt	Remove Download 🛩	