OCR
Oxford Cambridge and RSA

GCSE

ICT

Unit **B063:** ICT in Context

General Certificate of Secondary Education

Mark Scheme for June 2016

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All examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes should be read in conjunction with the published question papers and the report on the examination.

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Question			Answer/Indicative content	Mark	Guidance
1			<table><tr><td>**Task**</td><td>**Software**</td></tr><tr><td>Creating a newsletter about recent events</td><td>B</td></tr><tr><td>Calculate charges for each of the activities</td><td>D</td></tr><tr><td>Creating a memo to distribute to all staff</td><td>G</td></tr><tr><td>Editing the Progress Leisure website</td><td>E</td></tr><tr><td>Producing a multimedia slide show to show information on a screen during a meeting</td><td>C</td></tr><tr><td>Running a query to find all customers living in Coventry</td><td>A</td></tr><tr><td>Viewing information on Progress Leisure's intranet site</td><td>F</td></tr></table>	**[6]**	
2	a	i	(The) Data Protection (Act) / DPA	**[1]**	
		ii	Get permission (from customer) / ask customer	**[1]**	Not dependant on answer to 2ai

Question			Answer/Indicative content	Mark	Guidance
		iii	Two from • Have information corrected (1) • See own information/Subject Access Request (1) • Have data used fairly/lawfully (1) • Not to have information sold/given away (unless permission given) (1) • Information kept accurate/up to data (1) • Data not kept longer than necessary (1) • Data kept safe and secure (1) • Data not transferred outside EU (1)	[2]	Allow answers with relevant/correct qualification Not dependant on answers to 2ai
	b		Three from eg. • Surname • First name • Address • Address Line1 • Address Line 2 • Post code • Date of Birth • Activities signed up for • Medical details	[3]	Only accept data relevant to registration Accept name on its own, but then do not accept Surname, First name Accept Address on its own, but then do not accept Address Line 1, Address Line 2 Do not accept number on its own – too vague Contact details – too vague, carry on reading if exemplified
3	a	i	Bluetooth/ANT/Radio Frequency	[1]	Do not accept infra-red – not suitable based on context
		ii	Two marks for an explanation e.g. • Does not need line of sight(1) which could easily be lost when running(1) • Low power(1) so can be kept small/light(1) • Short range(1) so won't interfere with other users(1) • Once device is paired(1) connection is automatic (1)	[2]	Do not award if 3ai marked incorrect Allow mix and match if correct response

Question			Answer/Indicative content	Mark	Guidance
	b		Max three eg • Max Speed / pace (1) • Current Speed / pace (1) • Average speed / pace (1) • Running time (1) • Distance (1) • Split time / Lap time (1) • Energy/Calories used (1)	**[3]**	Answers should refer to items of data that could be displayed on a running machine Do not accept heart rate Accept speed or pace on its own for 1 mark
4			Two marks for an explanation • Delete data/wipe hard drive/format hard drive (1) to stop other people accessing it/because the DPA says you have to (1)	**[2]**	Accept answers such as format hard drive as these show awareness that data should be wiped. Do not accept answers relating to backing up data Answers must be related to recycling computer equipment. Do not accept burn computer
5	a		Two mark for a description eg. • Customers could receive a text message with a code (1) which is one-time (1) that they enter into the web site to log on (1) • Customer could receive an email with a code (1) which is unique (1) that they enter into the web site to log on (1)	**[2]**	One mark for identifying method (text message, email etc.) one mark for saying what is done with method

	Question		Answer/Indicative content	Mark	Guidance
	b		One mark for how data is presented, up to two marks for how it helps analysis (x2) e.g. • Data can be presented in a table (1st) so that all of the fitness data can be seen (1) to identify where to improve (1) • Data can be presented in a chart (1st) so trends can be highlighted (1) Can be drilled into (1) by using interactive elements (1) • Summary panel/tracker/profile page (1st) to display activities undertaken (1) for tracking performance over time (1)	**[6]**	Do not accept more than one type of chart/graph Method of presentation <u>must be stated</u> before remaining marks can be awarded.
6	a		Max 2 e.g • A set of rules (1) which must be complied with (1) • A set of rules (1) telling you what you can and can't do (1) • List of sanctions (1) for inappropriate use of internet (1)	**[2]**	No marks for repetition of question
	b		Two marks for explanation e.g. • Use a firewall (1) which would stop customers accessing data / to stop access to data from unauthorised people (1) • Use usernames and passwords (1) which customers would not know/ for staff to use (1) • Use biometrics/tokens (1) so only staff would have access (1)	**[2]**	Do not accept separate networks Do not accept encryption

Question			Answer/Indicative content	Mark	Guidance
7			Points may include **Advantages** More customers signing up as enjoy use of technology Increased sense of competition, encourages customers to participate More entertaining than using traditional equipment/relieves boredom of exercise **Disadvantages** Equipment can quickly seem dated as technology advances Cost to maintain/upgrade equipment Could put some people off who are not technical Participants would need to race at the same time Privacy issues with sharing so much data	**[8]**	**L3 7- 8 Marks** Candidates will provide an explanation of the advantage(s) **AND** disadvantage(s) of using virtual reality gym equipment. The answer will be in context The information will be presented in a structured and coherent form. There will be few if any errors in spelling, grammar and punctuation. Technical terms will be used appropriately and correctly. **L2 4 – 6 Marks** Candidates will provide an explanation **OR** detailed description of the advantage(s) **OR** disadvantage(s) of using virtual reality gym equipment At the bottom of the mark band, the candidate may provide a single description, not in context. The information will be presented in a structured format. There may be occasional errors in spelling, grammar and punctuation. Technical terms will be mainly correct. **L1 1 – 3 Marks** Candidates may provide a list of points, covering some of the advantage(s) **AND/OR** disadvantage(s) of using virtual reality gym equipment Information may be poorly expressed and there may be a limited, if any, use of technical terms. Errors of grammar, punctuation and spelling may be intrusive. **0 marks** – no relevant content

Question	Answer/Indicative content	Mark	Guidance
8	One mark for each feature identified (Max 3), two marks for each explanation (Max 6) **Vlogs** (1) Videos of training sessions can be uploaded (1) so customers can get tips on how to improve (1) **Blogs** (1) Customers can write about their experiences (1) to generate interest in sport/activity (1) **Wikis** (1) Reference material about a sport can be posted (1) that other people can post and contribute to (1) **Tagging** (1) Different people can be tagged in photos/video (1) so others can find events they have participated in (1) **Sharing (**1) Photos/video of events can be shared (1) so others can see what happens at events (1) **Comments** (1) Comments can be made on articles/posts (1) to give feedback to other participants (1)	**[9]**	Explanation marks can be awarded without identification if the explanation correct. Mix and match answers are acceptable. e.g. Sharing photos (1) that are tagged (1) to encourage others to participate (1) Only accept social networking example once

Question			Answer/Indicative content	Mark	Guidance
9			Points may include A device that most people have Easy to share data Facilities of smart phone Personal, so easy to secure Always with you, so can see data immediately. Small screen can make detailed analysis difficult Touch keyboard makes data input tricky Cost of device Risk of damage whilst using equipment	[8]	**L3 7 – 8 Marks** Candidates explain advantage(s) **and** disadvantage(s) of the use of a smart phone to analyse their fitness data. Candidates will produce an evaluation based on their comparison. The information will be presented in a structured and coherent form. There will be few if any errors in spelling, grammar and punctuation. Technical terms will be used appropriately and correctly. **L2 4 – 6 Marks** Candidates describe advantage(s) **and** disadvantages (s) of the use of a smart phone to analyse their fitness data. At the bottom of the mark band, only one side may be considered or may not be in context. The information will be presented in a structured format. There may be occasional errors in spelling, grammar and punctuation. Technical terms will be mainly correct. **L1 1 – 3 Marks** Candidates may produce a list of points of the advantage(s) and/or disadvantages of the use of a smart phone to analyse their fitness data. Information may be poorly expressed and there may be a limited, if any, use of technical terms. Errors of grammar, punctuation and spelling may be intrusive. **0 marks** – no relevant content

Question			Answer/Indicative content	Mark	Guidance
10			Two marks for an explanation eg. • Sharing bandwidth (1) so call quality may be poor (1) • New technology (1) so not always compatible (1) • If power cut(1) then can't call (for emergency services) (1) • Calls can sound distorted (1) due to bandwidth/latency issues (1)	**[2]**	Need internet access – too vague
			Paper Total	**[60]**	

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