wjec cbac

GCSE MARKING SCHEME

SUMMER 2016

ICT - UNIT 1 4331/01

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INTRODUCTION

This marking scheme was used by WJEC for the 2016 examination. It was finalised after detailed discussion at examiners' conferences by all the examiners involved in the assessment. The conference was held shortly after the paper was taken so that reference could be made to the full range of candidates' responses, with photocopied scripts forming the basis of discussion. The aim of the conference was to ensure that the marking scheme was interpreted and applied in the same way by all examiners.

It is hoped that this information will be of assistance to centres but it is recognised at the same time that, without the benefit of participation in the examiners' conference, teachers may have different views on certain matters of detail or interpretation.

WJEC regrets that it cannot enter into any discussion or correspondence about this marking scheme.

GCSE ICT - UNIT 1

SUMMER 2016 MARK SCHEME

Question				
1. (a)	Award 1 mark per point. Presentation (software) / Photo presentation software / movie software / web design or authoring software. Condone PowerPoint presentation but not PowerPoint on its own. Word processing (software)/DTP/Publishing/Email.	3		
	Data logging (software).			
	NB No Brand names			
1. (b) (i)	Award 1 mark for correct ticked box 4 4 6 7 ✓	3		
1. (b) (ii)	Any two from: Award 1 mark for the document and 1 mark for a different use. Menu – To give details of food available. Signs – e.g. way to toilets. Labels – To create price labels, desk labels to show the name of each stall. Newsletters – To send home to parents with information of timings, donations required. Banners – To hang around the fayre stalls. Certificates – For the most amount of money raised. Leaflet – Programme of events. Tickets-to get in. Flyers – to advertise (the Fayre). Timetable – to show when events take place. Must be two completely different uses. Credit any other reasonable answer NOT letters NOT poster	2x2		
2. (a)	Must be definition not a use Award 1 mark for electronic message/ electronic letter Award 1 mark for between /computers/mobile phone /across network/ via Internet/online NOT 'messages sent by a computer' NOT 'letter' by itself	2		
2(b)	Award 1 mark per correct response. True False False True False	5		

Question	estion Answer			
2. (c)	Award 1 mark for <u>disadvantage</u> and 1 mark for <u>method of prevention</u> from the list below X 2	4		
	Spam / junk mail – spam filter/block sender Hacking – change passwords regularly / use a firewall / monitoring software/spyware Cyber bullying – parental control / parents checking email/report Inappropriate / pornographic attachments – email monitoring Staff using for personal use – workplace monitoring / code of conduct Information overload - only send to those who you need to Email account restrictions/limitations on file size transfer – compression / larger file transfer facilities			
	Can get prevention mark if disadvantage incorrect but do not award same prevention twice. Some may be inter-changeable e.g. only allow blocking once.	1		
	NOT Phishing and viruses NOT Anti-virus software			
3	Award 1 mark per response	4		
	 3 4 8 11 <i>If more than one box is ticked in any row - no mark for that row</i> 			
4	Award 1 mark for each of three advantages from: Allow any advantage only once	-		
	They can reduce fuel use <u>so are 'greener'</u> Can select/plan the shortest route to <u>save money</u>			
	Gives estimated time from A to B / shows <u>how long it takes</u> / <u>give estimated time of</u> <u>arrival</u> from one place to another	3		
	Can be warned in advance of any holdups/traffic jams/tolls / can <u>suggest alternative</u> <u>routes</u>			
	Helps you to keep to planned route / can give you directions to where you are going /plan routes from A to B to stop you getting lost / you can find your location if you get lost.			
	Provides emergency help Can be found/tracked if lost in an emergency.			
	Can find places of interest / petrol stations, supermarkets etc. to save time/petrol			
	Can see aerial view /street view/ spatial awareness / street view can give an exact image of the location so don't need to pre-visit site			
	Accurately predict the weather/use weather forecasts to help in future planning			
	Any reasonable use but must have an advantage			
	Answers must be qualified NOT 'to see how long it takes' or 'to see what the area is' NOT general advantages e.g. Easier to carry / Can take it anywhere			
	Award one mark for a disadvantage from: <u>Systems/software/ data</u> not accurate or up to date / <u>maps</u> could be out of date (Satellite navigation systems) can send you down roads which are too narrow (Using satellite navigation systems) can distract drivers and cause accidents Problems with loss of <u>satellite</u> signal /internet <u>connection</u> Can <u>drain</u> battery quickly / Needs to be <u>charged</u> more regularly Can be used to stalk users without their consent			
	NOT Cost of equipment NOT Uses battery NOT just loss of signal/not can lose connection NOT inaccurate if accuracy given as an advantage			

Question	on Answer				
5. (a)	Award 1 mark for 8				
5. (b)	Award 1 mark for 2				
5. (c)	Award 1 mark per point Stall ID To uniquely identify the stall / to make each record unique / unique identifier				
5. (d)	Award 1 mark for each correct field and search criteria x2 Award 1 mark if both fields are correct but search criteria incorrect Award 1 mark if both search criteria are correct but fields are incorrect Search criteria must be spelt correctly				
	Field Logical Operator Search Criteria				
	Stall Size = Large Stall Size = Medium				
- ()					
5. (e)	Award 1 mark for Year	1			
5. (f)	Award 1 mark for: The <u>Date Idea Submitted</u>) is incorrect for N Khan / Stall 5. There are not 37 days in May / There are only 31 days in May / <u>37</u> /05/2016 NOTE: needs to identify the record	3			
	Award 1 mark for type Range check				
	Dedicated drop list with three Date Month Year				
	Award 1 mark for range				
	The day should be between 1 and 31.				
6. (a)	Award 1 mark for: Currency NOT Money	1			
6. (b)	Award 1 mark for: Merge / Merge cells	1			
6. (c)	Award 1 mark for: B (= D6+D11+D17)	1			
6. (d)	Award 1 mark for: =F6/F3	1			
	Condone divide sign /SUM				
6. (e)	Must have = sign Award 1 mark each for any of the following. Any three of:	3			
	Accurate/correct calculations Automatic <u>re-</u> calculation Save formula and data Do 'what ifs' Draw graphs Replication Use macros to navigate quickly				
	Accept any reasonable advantage but not just a use				
	NOT 'can do sums' NOT 'faster' NOT 'easier' NOT just Automatic calculations				

Question	Answer	Max mark
6. (f)	 Award 1 mark for each point. Absolute cell referencing - cell reference will not change/lock a cell reference when cells are replicated or copied (FIXED) Relative cell referencing – cell reference will change when cells are replicated or copied (CHANGES RELATIVE TO CELL ADDRESS) 	2
7. (a)		4
	General Disadvantages Reliance on system Staff training Faster must be qualified as an advantage NOT 'expensive' by itself must be qualified.	

7. (b)	Award 1 mark for any one advantage and one disadvantage from the following:	2
	One advantage from:Students can access the VLE from any device that has the InternetIf students are absent they can catch up on missing workSaves paper – environmentLearning can occur 24/7 (Not '24/7' by itself must have a process Condone 'use 24/7')Students can work at own paceStudents can access help files / class blog/wiki/forum/messages for helpStudents can be more organised, e.g. checking timetablesCan collaborate onlineSelf-assessmentExtended self-learning/independent learningOne disadvantage from:If pupils don't have a computer/internet connection, they cannot access from home (have and have-nots)Hackers altering test resultsPupils unsure how to use system/lack of training/confidence Teacher not present if get stuck	
8.	Award 1 mark for the correct response: A (digital) camera used to capture still images and video images on the Internet/network. A camera used to collect/display moving images over the Internet/network. Real time camera. Video telephony.	1
	Not just a 'digital camera' Needs camera + internet/network/computer/live/realtime.	
	No brand names.	
	Any one from Use, Advantage and Disadvantage	3
	Use Online dating Viewing a place anywhere in the world Advertising, e.g. self-promotion (creating own videos for uploading to a video streaming website) Online interviews Monitoring a baby in a nursery Video calls/videoconferencing Online/real-time meetings Condone Playing computer games	
	Accept any reasonable answer Do not accept brand names such as 'skype' NOT Just "take photos" and "make videos" on its own – needs a purpose	
	Advantage Reduces isolation by interaction with friends and family in real time Can see who you are talking to Improves gaming experience in games which immerse player in environment Saves time/travel costs by talking to groups (teleconference) of friends simultaneously Cheaper /free telephone calls See body language	
	Disadvantage Poor <u>connection</u> /poor broadband <u>speed</u> /poor internet <u>connection</u> Need to set up the software Demands on memory May need to buy a more expensive / faster / newer computer Poor quality images Needs broadband Hacking – the webcam could be turned on without your knowledge Misuse of images captured - paedophiles	

Question	Answer	Max mark
9(a)	Award 1 mark each x2 Email address Password Date of flight No of passengers Name Tel No Card details Security code Any reasonable field related to booking a flight Type of verification Award 1 mark each x2 Read before submit/proofread Double entry keying / Type it in twice – only award if they have given email or password in the list of fields	2x2
9. (b)	Award 1 mark for any four advantages to the customer from: Avoids double booking Can book 24/7 Can choose seat from aeroplane plan/ e.g. extra leg room/aisle/bulkhead seat Loyalty scheme Compare prices Get cheap deals /On-line discounts / special offers Easier for disabled who don't have to leave home to book Read online reviews before booking Can check availability before booking Save on travel costs (must be qualified) Save travel time (must be qualified) e.g. rather than going to the travel agents to book Lower prices for booking in advance E-tickets/print tickets/tickets arrive instantly/tickets do not get lost in post Can get advanced notification and pre general release options Can set up online quick buy accounts so faster to buy tickets Automatically added to e-calendars Email notifications of changes to flight Can book on many devices. NOT just faster/faster to buy NOT just faster/faster to book' NOT 'do not have to leave the comfort of your home'/'do it from home' must be qualified	4
9. (c)	Award 1 mark for one disadvantage <u>to the customer</u> : Pay extra charges Not everyone has internet access Online fraud/fake websites/credit card details can be stolen Lack of help/no-one to ask if confused NOT increased job losses NOT Printing NOT 'Hacking' unless qualified by stealing financial details.	1

Question	Answer				Max mark	
10.	Criteria Marked					
	 10-13 marks Candidates give a clear, coherent answer giving input devices of computer gaming and fully and accurately describing two health hazards and preventions and giving different advantages and disadvantages. They use appropriate terminology and accurate spelling, punctuation and grammar. Candidates give some input devices of computer gaming describing health hazards and giving a few different advantages and disadvantages, but responses lack clarity. There are a few errors in spelling, punctuation and 					
	1-4 marks	grammar. Candidates give advanta	simply give an input device,	state a health hazard and may not response lacks clarity and there are		
	0 marks	No valid res				
	Award 1 mark	for each hea for describi	ut device stated (Max 3) al hazard, cause and matc ng advantages and disadv		-	
	Input: (1 mark device X3)		Joystick Control pad / games controller Steering wheel Keyboard Mouse Microphone Camera / webcam Virtual reality devices Movement sensor Optical drive / cartridge slot Touchscreen Secondary device (e.g. docked phone) Step pad Any control devices accepted NOT games console NOT headset			
	Health Hazard Needs the prob Need the cause	blem and e X 2	Eye strain – from staring at monitor for too long (ONLY accept eye strain)	Focus on distant object		
	Matching Preve (Preventions r different)		RSI – Continuously pressing games controller	Ergonomic controllers/ keyboards Regular exercise Wrist and feet support		
	If list two heal but no corresp cause then ma	oonding	Backache – Staying in the same position	Use an adjustable chair (NOT comfortable or suitable chair) Take regular breaks		
			Addiction – can't stop playing the game / effects school work / social isolation	Take regular breaks/ Parental monitoring Take regular breaks		
			Headaches – screen is too bright	Screen filters		
			Photo sensitive epilepsy Neck strain – for keeping your neck in the same position for too long	Have eyes at the same level as monitor Use adjustable chairs Adjust monitor height/ screen at suitable angle		

Disadvantages Any six advantages and disadvantages	
For Max marks need to give at least one advantage and one disadvantage	
Any advantages from:	Educational/ Learning tools / Make learning enjoyable Encourage teamwork / collaboration Can increase hand/eye coordination Improves problem solving ability Can make friends all round the world Fun, entertaining Encourages young children to go into a game related career, e.g. Developer/ Designer To keep fit Improve reaction time Allows you to experience something you wouldn't normally do, e.g. driving/racing cars Free online games
Any disadvantages from:	Social isolation Violent games Cyberbullying Waste time / school work suffers Initial set up cost Condone: Chatting to people you do not know could be a danger? Addiction- if not used as a health risk NOT other health hazards