

Mark Scheme (Results) Summer 2010

GCE

GCE Applied Information and Communication Technology

(6953/01) Unit 3 - The Knowledge Worker

Edexcel Limited. Registered in England and Wales No. 4496750 Registered Office: One90 High Holborn, London WC1V 7BH



Edexcel is one of the leading examining and awarding bodies in the UK and throughout the world. We provide a wide range of qualifications including academic, vocational, occupational and specific programmes for employers.

Through a network of UK and overseas offices, Edexcel's centres receive the support they need to help them deliver their education and training programmes to learners.

For further information, please call our GCE line on 0844 576 0025, our GCSE team on 0844 576 0027, or visit our website at <u>www.edexcel.com</u>.

If you have any subject specific questions about the content of this Mark Scheme that require the help of a subject specialist, you may find our Ask The Expert email service helpful.

Ask The Expert can be accessed online at the following link:

http://www.edexcel.com/Aboutus/contact-us/

Alternatively, you can speak directly to a subject specialist at Edexcel on our dedicated ICT telephone line: 0844 372 2186 From outside the UK: +44 844 372 2186 Or email our Subject Advisor for ICT, directly at ICTSubjectAdvisor@edexcelexperts.co.uk

Summer 2010 Publications Code UA023480 All the material in this publication is copyright © Edexcel Ltd 2010

General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

Applied GCE ICT Unit 3 - Mark Scheme - June 2010						
Activity		ANSWER	POSS. MARK	MAX		
Activity 1		Understanding the problem				
		Any 10 of				
	A1	British Basketball League (BBL) Southern Division basketball	1			
	A2	Different day for each age groups	1			
	A3	Boys and girls on same day	1			
	A4	Collecting players for training session	1			
	A5	15 seats available on each mini-bus (+driver)	1			
	A6	4 mini-buses	1			
	A7	30 people each session to transport /(15 boys & 15 girls)	1			
	A8	Sessions start at 12:30	1			
	A9	Sign-in at 12	1			
	A10	Sessions at Crawley	1			
	A11	Pickups at 14 places /14 teams in league	1			
	A12	Teams can supply any number of players	1			
	A13	Mini-bus to wait for 5 minutes	1			
	A14	Two sources of data	1			
				10		
		Award marks if somewhere in the decisions it implies more than 1 minibus				
	B1	Which mini-buses make which stops / which clubs they are going to	1			
	B2	Routes taken /order of stops/times of stops	1			
	B3	Start times	1			
		(number of people at each stop is not a decision)		3		
		Total Marks for Activity 1		13		

Activity 2		Sources of Information			
		A1 -A11 marks relate to the d			
		Any 5 of			
	A1	Different routes chosen (by AA	/ MM not the driver)	1	
	A2	Long term road works		1	
	A3	Different assumed speeds/vehic	cle	1	
	A4	The employee of Southern Div different times of day when col congestion)	rision might have used lecting data (Assumed	1	
	A5	More up to date maps or inform	nation / new roads on route /	1	
	A6	AA /someone may have driven estimated it from their maps / other driving	the routes whilst MM will have calculated by some means	1	
	A7	Different user options used / e. route	g. quickest route /shortest	1	
	A8	Typo - user data entry error		1	
	A9	Avoid toll roads / via option		1	
	A10	System logic - includes factors for traffic lights (needs clear ex	like amount of time allowed (planation)		
	A11	Any suitable other factor		1	
					5
		Award B1 or B2 if candidates m	ake a choice		
	B1	I will use the AA,	Use both datasets (only if	1	
	B2	and Multimaps,	combined in some way)	1	
	B3	and select the longest time,		1	
	B4 to be on the safe side. (award B4 only if B3 awarded)		1		
					4
		Any 6 of			
	C1	Volume of traffic heavy traffic	/ fewer people of roads	1	
	C2	Road-works / other closures		1	
	C3	Speed		1	
	C4	Accidents		1	
	C5	players turning up late / Bus d mins	river might wait more than 5	1	
	C6	Weather		1	
	C7	New roads		1	
	C8	Breakdowns		1	
	C9	Unplanned stops		1	
	C10	Anything sensible		1	
					6
			Total Marks for Activity 2		15

Activity 3		Computer Modelling		
		Import Data		
	A1	Worksheets created	1,1	
	A2	Data Imported correctly AA (67, 115, 130) MM (78,121,135)	1,1	
	A3	Suitable names for worksheet	1,1	
				6
		Timings (Formulae)		
		Print: columns A-D, rows 3-18		
		Formula : B4 =MAX(multi!B2,AA!B2) or similar		
	B1	Correct cell from new AA worksheet	1	
	B2	Correct cell from new Multimaps worksheet	1	
	B3	Biggest value used (If or Max function)	1	
	B4	Replicated correctly (must use at least one datasheet)	1	
				4
		Timetable (Formulae)		
		Printout 1Depart/stop2 in top row (E-F)		
		=IF(C4=A4,D4,D4+5/(24*60)) or similar with different ways of		
		adding 5 minutes (see C5)		
	C1	If Statement used	1	
	C2	Comparison C4 and A4 or reverse	1	
	C3	If same D4 (B4)	1	
	C4	If not same D4 +	1	
	C5	5 minutes value correct eg. time(0,5,0) or "00:05:00" or 5/24*60 or 5/1440	1	
	C6	if correct formula in E4 Sum not used	1	
	C7	Replicated only if correct formula in E4	1	
		printout 2 depart/depart in top row (H+K)		
		H4=IF(F4=C4,G4,G4+5/(60*24))		
		K4=IF(I4=F4,J4,J4+5/(24*60))		
	C8	Column H and K correct	1	
	C9	Column H and K only printed on 1 sheet	1	
				9
		Teams (Formula) Print: Columns B-E, rows 2-16		
	D1	Correct formula in cell E3 (=C3+D3) or =SUM(C3,D3) (Accept Sum if : used)	1	
	D2	Formula correctly replicated if working formula	1	
				2
		Printouts		
	E1	All required printouts, no extras or missing sheets	1	
	E2	In right order, no extras or missing sheets	1	
	E3	Column headings on all (must be at least 5 sheets)	1	
	E4	Row headings on all (must be at least 5 sheets)	1	
	E5	Gridlines on all (must be at least 5 sheets)	1	
	E6	Correct header & footer	1	
	E7	Correct rows printed (must be at least 5 sheets)	1	

	E8	Correct columns printed (must be at least 5 sheets including H-K of timetable))	1	
				8
		Total Marks for Activity 3		29
l				

Activity 4		Letters & memos		
		Memos (screenshots only allowed if only memo can be seen)		
	A1	2 memos produced or 1 with both sets of times	1	
	A2	All minibuses used	1,1	
	A3	No bus leaves before 6	1,1	
	A4	All buses used arrive at or before 12	1,1	
	A5	All arrive between 11.45 and 11.59 if A3 awarded	1,1	
		A2, A3, A4, A5 one for each memo		9
Note: Place QWC adju mark ban	student Istment d. Mark	in correct mark band based on content. can only reduce mark within band. This must be based on the e s cannot be added and the adjustment cannot put the mark in a	expectation w different ma	ithin the rk band.
	Letter			
	Indicat	tive Content		
	• • standa	 who is sending letter (2w) BBL Southern Division reason for invitation (5r) special coach, why he is good for selection event training session Under 14s Information (6i) Correct Day & Date given 5 minutes wait Sign in Time Crawley Table info Times of pickups Places of pickups, Letter format acceptance/rejection method salutation (Dear parent / guardian) not names correct close (not yours sincerely MB3) letter date 		
Level	Mark	Descriptor		
0	0	No rewardable material		
Level 1	1-4	May not look like a letter. Some information about the event May not include details of sender and reason for invite Should have the times / places of pickup The candidate uses everyday language and the response lacks clarity and organisation. Spelling, punctuation and the rules of grammar are used with limited accuracy.		
Level 2	5-8	Some content from all sections Basic letter form salutation and close may not be appropriate.		

Level 3	 Preserve and shows some focus and organisation. Spelling, punctuation and the rules of grammar are used with some accuracy. Preserve 3 P-12 Post content from each section No redundant information, tabular format used sensibly. Looks like standard letter. Appropriate salutation and close The candidate uses a range of appropriate terms and shows good focus a organisation. Spelling, punctuation and the rules of grammar used with considerable accuracy. 			
				12
		Charts (could have one combined pie chart)		12
	C1	Percentages shown	1	
	C2	Suitable labels	1	
	C3	Pie charts	1	
	C4	Zeros eliminated	1	
			•	4
				· ·
		Total Marks for Activity 4		25

Activity 5		Evaluation		
	A1	Comment on ease of use	1	
	A2	Statement to the effect that it helped you to a solution	1	
				2
		Max 4 marks (Any combination of)		
	B1	Recommendations for improvement System produces individual parent letters	1	
	B2	Recommendations for improvement with any explanation Names and addresses should be stored and a mailmerge used to produce individual letters	2	
		Other possibilities: Works out route automatically Put totals on memo Stop multiple visits to one location 		
				4
		Total Marks for Activity 5		6
SWW		At least 3 activities attempted for S1 and S2 to be awarded		
	S1	Authenticating Work (All WP pages have activity number, name, candidate number, centre number).	1	
	S2	Appropriate Structure (Pages in correct order & folder assembled correctly)	1	
		Total for SWW		2
		Total for Paper		90

Further copies of this publication are available from Edexcel Publications, Adamsway, Mansfield, Notts, NG18 4FN

Telephone 01623 467467 Fax 01623 450481 Email <u>publications@linneydirect.com</u> Order Code UA023480 Summer 2010

For more information on Edexcel qualifications, please visit <u>www.edexcel.com/quals</u>

Edexcel Limited. Registered in England and Wales no.4496750 Registered Office: One90 High Holborn, London, WC1V 7BH