

General Certificate of Secondary Education

Information and Communication Technology 3521 Specification A

3521/F Full Course (Foundation Tier)

Mark Scheme

2005 examination - June series

Mark schemes are prepared by the Principal Examiner and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation meeting attended by all examiners and is the scheme which was used by them in this examination. The standardisation meeting ensures that the mark scheme covers the candidates' responses to questions and that every examiner understands and applies it in the same correct way. As preparation for the standardisation meeting each examiner analyses a number of candidates' scripts: alternative answers not already covered by the mark scheme are discussed at the meeting and legislated for. If, after this meeting, examiners encounter unusual answers which have not been discussed at the meeting they are required to refer these to the Principal Examiner.

It must be stressed that a mark scheme is a working document, in many cases further developed and expanded on the basis of candidates' reactions to a particular paper. Assumptions about future mark schemes on the basis of one year's document should be avoided; whilst the guiding principles of assessment remain constant, details will change, depending on the content of a particular examination paper.

1.	С	Correct Answer Only	1 mark
2.	А	Correct Answer Only	1 mark
3.	D	Correct Answer Only	1 mark
4.	D and E	Correct Answers Only (2x1)	2 marks
5.	A, B and F	Correct Answer Only (3x1)	3 marks
6.	А	Correct Answer Only	1 mark
			Total 9 marks

		Total 8 marks
Output	Correct Answer only	1 mark
Input	Correct Answer only	1 mark
Output	Correct Answer only	1 mark
Output	Correct Answer only	1 mark
Input	Correct Answer only	1 mark
Storage	Correct Answer only	1 mark
Input	Correct Answer only	1 mark
Storage	Correct Answer only	1 mark

8.

Items need not be in the order given below (but must be grouped as given) Headings Ok but not needed for the marks

(a)	General detail Allow Lancre	1 mark arate)			
	Date/Where	- correct date and spelling (see above) 1 mark	κ.		
	Admission det	 ails - all there and grouped (3 items) ignore spelling mistakes, capitals prices all correct 	1 mark		
	Stall details	– all there and grouped (7 items)	1 mark		
	- ignore spelling mistakes, capitals				
	Other attracti	 ons details – all there and grouped (3 items) - ignore spelling mistakes, capitals 	1 mark		
	1 11 1 1 (1		tal 5 marks		
(b)	The indication o o	An arrow pointing at where the feature would be used Written right next to the feature /place to be used Written in words as to where the feature will be used			
	Large & bold	bold font — indicate any of the following:- headings/date/where/time/price/tel no/Title 1 mark			
	 indicate any of the following:- could be a repeat of above 	_			
	headings/date/where/time/price/tel no. any "block of details" 1 mark				
	Importing clip	 b-art - must say what the picture is / be a clear relevant pi (not just the word picture) -one picture is enough (sensible picture – accept most) - some indication of the position if not drawn 	cture 1 mark		

Sub total 3 marks

(c)	 Allow repeat reason for 2 but NOT 3 of the following:- Large bold font - reason for large bold title Can be easily read Looks more attractive/eye-catching/appealing Looks more professional Makes text stand out/grabs peoples attention Coloured text - reason for coloured text Looks more attractive/eye-catching/appealing Looks more professional Makes text stand out/grabs peoples attention 			1 mark 1 mark
	Impo • • •	1 mark Sub total 3 marks		
9 (a)	(i)	Implementation	Correct answer only	1 mark
	(ii)	Analysis	Correct answer only	1 mark
	(iii)	Testing	Correct answer only	1 mark
	(iv)	Design	Correct answer only	1 mark
	(v)	Design	Correct answer only	1 mark
	(vi)	Evaluation	Correct answer only	1 mark
	(vii)	Design	Correct answer only	1 mark
				Total 7 marks
(b)	Quest Looki (User Interv Look	ing at documentation Guide/specification) view users of the existi	sk about the existing system of the existing system	ague ideas (2)

Total 2 marks

10.Ignore any leading OPEN Accept CLOSE for 1 mark even the command(s) are wrong Part A **DOWN 3 Correct answer only** 1 mark **CLOSE Correct answer only** 1 mark Mark independently (CLOSE ends this section) Part B – look for **UP 3 Correct answer only** 1 mark **RIGHT 14** 1 mark **Correct answer only DOWN 4 OPEN** 1 mark **Correct answer only** UP 4 1 mark LEFT 14 **Correct answer only NB** – stop at first ERROR

Ignore obvious spelling errors, incorrect case and spacing If all along one line then accept (e.g. DOWN 3 CLOSE, etc) Allow labelled instructions

Deduct 1 mark for use of consistent abbreviations throughout (e.g. RT – RIGHT) Deduct 1 mark for use of units (e.g. cm or units) OR deduct one mark for repeat of whole instruction Max deduct is 1 mark SPECIAL CASE

Part B could contain a version that works not using the commands from the list.

This will be given either 2 marks for totally correct or 0 marks

AND stop at first mistake as before (wrong move)

11

sensor	Correct answer only	1 mark
data logging	Correct answer only	1 mark
period of logging	Correct answer only	1 mark
logging interval	Correct answer only	1 mark
calibrate	Correct answer only	1 mark
feedback	Correct answer only	1 mark
		Total 6 marks

12 (a)	Cheaper as printers can be shared	Correct answer only	(1)
	Data can be quickly and easily transferred be	etween computers CAO	(1)
	Users can communicate with each other	Correct answer only	(1)
(b)	Problems with server/serve breaks down effe Viruses pass (quickly) from machine to mach Increased security problems (other peoples for Increased installation costs (not just more ex "Big brother" watching you issues NOT hardware has to be maintained. NOT printer queues	hine iles)	
	Any 1 x 1 mark		(1)

Sub total 1 mark

(c) Wide Area Network	Correct Answer only (1)	
(d) Wide Area Network – usually	Local Area Network - usually	
Town/world wide (clear example such as Internet) Uses comms to connect	room/building wide/site (clear example such as a school) connects with wires	
NOT candidate just repeating "local One item from each gets two mark Any 2 x 1 n	ζS	(2)

13(a)	А	Correct answer only	(1)
	D	Correct answer only	(1)
	E	Correct answer only	(1)
			Total 3 marks

Total 6 marks

(b) **any additional tasks**

Scans each user in set sequence (may be round robin) Allocates user time/resource allocation in set sequence

Allow other operating system routines.

- Organise/manage/supervises the programs whilst they are running
- Provides start up instructions (boot up)
- Handling interrupts
- Share resources (between different tasks)
- Reporting on errors/Error handling

- Dealing with passwords/security (e.g. user Ids, levels of access)
- Allocation of storage space.

No repeats of A-F NOT Communication between hardware and software (0)

Any 1 x 1 mark

1 mark

(c) Any additional tasks

Appears to be working on more than one task/program at once

Allow other operating system routines.

- Organise/manage/supervises the programs whilst they are running
- Provides start up instructions (boot up)
- Handling interrupts
- Share resources (between different tasks)
- Reporting on errors/Error handling
- Dealing with passwords/security (e.g. user Ids, levels of access)
- Allocation of storage space.

No repeats of A-F

NOT Communication between hardware and software (0)

Any 1 x 1 mark	1 mark
Any 1 x 1 mark	(1)
	Sub total 1 mark

14 (a)

- The information is more likely to be up to date. (allow updated)
- May not be able to take the books home.
- Research could include sound or video clips
- Could be many more(sources)of information.
- May be more fun/motivating to "do the research"
- Could use search engines to find specific information (quicker to find/faster to search/more efficient to search)
- Use chat lines to ask questions
- Several languages
- Books can be lost or damaged
- Get printouts
- Export to other documents

NOT faster to look for or faster to find

Any 2 x 1 mark

(2)

Sub total 2 marks

(b) Load (or equivalent) a suitable search engine e.g. Google/Jeeves etc.

(not just search engine - in question)

Type in suitable search criteria/words/what you are looking for Review finds for the most likely/suitable hits

Refine search as needed

Any 2 x 1 mark

(2) Sub total 2 marks (c)

- Can take the book anywhere
- Much more likely to be sure of the source of the information.
- Access to the internet may be interrupted
- Access to the internet costs money
- Computer might breakdown/not available/not enough computers
- Not computer literate
- Know exactly which book the info is in/ specific book
- Habit/like books/known the system

NOT just "easier to use" Any 2 x 1 mark

(2) Sub total 2 marks

 (d) Teletext (or similar) CD-ROM – allow named CD-ROM eg Encarta Allow other text eg magazine Allow CD or video (clip) Any 1 x 1 mark (1) Sub total 1 mark

15 (i) field Key field	Correct answer only	(1)
(ii) compression	Correct answer only	(1)
(iii) encryption	Correct answer only	(1)
(iv) a password	Correct answer only	(1)
(v) a virus	Correct answer only	(1)

- Total 5 marks
- 16 (a) Reduce the duplication of data only put in the data once Easier/faster to keep the data up to date Increases the consistency of data/ fewer mistakes or errors

Any 2	2 x 1 mark each	2 marks	
(b)	Animal's name	Correct answer only	1 mark
	Date of last treatment	Correct answer only	1 mark
	Date of Birth of the animal	Correct answer only	1 mark
			Total 3 marks
(c) A	unique field that is used to identia	1 mark	
(d) Animal number / Id. Number or suitable equivalent NOT owner code or account number			1 mark