

Cambridge International Examinations

Cambridge International Advanced Subsidiary and Advanced Level

CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		

405360878

APPLIED INFORMATION AND COMMUNICATION TECHNOLOGY

9713/33

Paper 3

October/November 2017

1 hour 15 minutes

Candidates answer on the Question Paper.

No Additional Materials are required.

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name on all the work you hand in.

Write in dark blue or black pen.

Do not use staples, paper clips, glue or correction fluid.

You may use an HB pencil for any diagrams, graphs or rough working.

DO NOT WRITE IN ANY BARCODES.

Answer all questions.

The number of marks is given in brackets [] at the end of each question or part question.

The businesses described in this paper are entirely fictitious.



Scenario 1

Questions 1, 2, 3 and 4

The market research department of a large company stores details of its interviewers and interviewees in a database. The database is stored on multiple servers on the company network.

It uses a database management system (DBMS) to access the database.

The market research department uses personal interviewing, telephone interviewing and online questionnaires to carry out the research. The research department uses computers when carrying out personal interviewing.

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1	Describe the benefits of storing the database on more than one server.

Explain the functions of a DBMS.	
	[8]
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3	Discuss research		ntages	and	disad	vantage	es of	using	online	question	naires	for	capturing
													[6]

Other than online questionnaire by personal interviewing.		•	. .
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Scenario 2

Questions 5, 6, 7 and 8

A bank has branches in many towns and cities around the world.

The bank offers personal banking services at every branch as well as providing an online banking service.

The bank stores the personal and financial details of all its customers in encrypted files on secure servers. Each branch of the bank has a local area network (LAN) that is connected to the other LANs to form a secure wide area network (WAN) so that all the details can be accessed from any branch.

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Scenario 3

Questions 9, 10, 11 and 12

A multinational school uses ICT for learning and assessment.

Some teachers in the school use computers to help the students' learning. Other teachers prefer a more traditional approach without the use of computers.

Those teachers who use computers can create online presentations and courses for their students.

The teachers are worried about security issues when using ICT to administer student tests and examinations.

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10	(a)	Describe the features of web authoring software that a teacher would use to create an online presentation.
		[6]
	(b)	Describe how overlay software could be used to prepare an image for use in an online presentation.

Compare methods t			прик	515 W	7 1101	р 10	α ιτιιι	.9	 	tradit	ioriai	IEa

Describe the drawbacks of using online examinations to test the students.
[6]

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