<u>JO</u>	UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIO General Certificate of Education Advanced Level	MANAN, DabaCambridge
CANDIDATE NAME		
CENTRE NUMBER	CANDIDATE	
	RMATION AND COMMUNICATION TECHNOLOGY	9713/33

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, highlighters, glue or correction fluid.

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

DO NOT WRITE IN ANY BARCODES.

Answer all questions.

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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.

This document consists of 18 printed pages and 2 blank pages.



#### Scenario 1 Questions 1 and 2

www.papacambridge.com Kamran runs a small supermarket which includes an internet café in Islamabad. He is going to expand the business and needs to replace manual tills with EFTPOS terminals. These terminals will be networked together with computers used for administration.

He uses a stock control program to help him manage his business.

	3 Describe <b>four</b> items of information about a product held by the stock control system 1 Item 1	
(a)	Describe <b>four</b> items of information about a product held by the stock control syst	For
	Item 1	high iner's
		Se.con
		Nº.
	Item 2	
	Item 3	
	Item 4	
	[4]	

1

	422	
	4	
(b)	4 Describe three ways that a stock control program will help Kamran in manage business. Way 1	For iner's
	Way 1	idge.
		-OIT
	Way 2	
	Way 3	
	[6]	

	4	
	5	
	20	
(c)	Other than controlling the stock, describe <b>three</b> benefits to Kamran of using Eterminals rather than using manual tills.	For iner's
	5 Other than controlling the stock, describe <b>three</b> benefits to Kamran of using E terminals rather than using manual tills. Benefit 1	ide.c.
		OT
	Benefit 2	
	Benefit 3	
	[6]	

	422
	6 computers in the internet café need to be connected to the main server. Kamran is considering using WiFi. Give <b>three</b> advantages of using WiFi rather than cables to connect these computers.
The	computers in the internet café need to be connected to the main server.
(a)	Kamran is considering using WiFi.
	Give three advantages of using WiFi rather than cables to connect these computers.
	1
	<u></u>
	2
	3
	[3]
. ,	Give <b>three</b> disadvantages of using WiFi rather than cables to connect these computers.
	2
	3
	[3]

	Mary Mary
	7
(c)	7 Describe, including their uses, <b>three</b> items of networking hardware which are the so that the computers can be connected wirelessly. Item 1
	Item 1
	Use
	Itom 2
	Item 2
	Use
	Use
	Item 3
	Use
	[6]

	12
	8
(d)	8 Explain what is meant by the following computer terms used when access internet. URL
	URL
	HTML
	[4]
(e)	Name and describe <b>two</b> protocols that computers could use over the internet.
	1
	2
	[4]
	······································

# Scenario 2 Questions 3 and 4

www.papacambridge.com The botany department of a university has recently discovered a number of rare plants in a remote region of the country.

The department wants to use ICT to monitor the weather conditions in the region where the plants were found.

They will need an expert system to help classify the rare plants.

	10    Describe in detail five sensors that will be used in a weather monitoring system.    1	
3	Describe in detail <b>five</b> sensors that will be used in a weather monitoring system.	r
	1	hers
	n n n n n n n n n n n n n n n n n n n	co
	2	
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	[5]	
	[0]	

		No.
		11 2.02
ŀ	Ехр	lain the role of the following in an expert system.
	(a)	Knowledge engineer
		11    lain the role of the following in an expert system.    Knowledge engineer
		[4]
	(b)	Inference engine
		[4]

### Scenario 3 **Questions 5 and 6**

www.papaCambridge.com Jamestown District Council have employed an architect to design a new assembly hall. The architect will use computer modelling to show her ideas to the council.

The council will put information about the new assembly hall onto its website so that members of the public can see the designs and make comments.

As members of the public can access and download the information, the council is concerned about the security of the website.

		432	
		13	
5 (	(a)	13 Discuss four actions that a hacker might take when attempting to breach the sof the website and for each one state how it can be prevented.	For iner's
		1	1996
			OTH
		2	
		3	
		4	
		[8]	

	4772	
	14	
(b)	14 Describe how the information could be put on the site so that it can be downloaded. Include in your description any storage media that could be used.	For iner's
		90
		.60
	[5]	

www.papacambridge.com 15 Describe, using examples, how the following two computer models could be used 6 architect in a presentation to the full council about the new assembly hall. (a) Financial model ..... [3] ..... (b) CAD model 

.....

[3]

#### Scenario 4 **Question 7**

www.Papacambridge.com Joe is a disabled person living in Chicago. His hobby is stamp collecting and he enjoys using online auctions for the buying and selling of stamps.

			XXX
			17
7	(a)	Exp	lain how the use of ICT will improve his access to the following:
		(i)	17 lain how the use of ICT will improve his access to the following: Booking a theatre ticket
			[2]
		(ii)	Employment
			[2]
		(iii)	Health care
			[2]
			[2]

	42	
	18 There are a number of problems associated with online auctions. Describe in detail how these could be overcome.	
(b)	There are a number of problems associated with online auctions.	For
	Describe in detail how these could be overcome.	iner's
		age
		SOM
	[6]	



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