

ADVANCED
General Certificate of Education
2012

71 Candidate Num

Applied Information and Communication Technology

Assessment Unit A2 7

assessing

Unit 7: Investigating Systems

[A6J11]

FRIDAY 25 MAY, MORNING



5

6

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8

9

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14

16

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11

TIME

2 hours.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

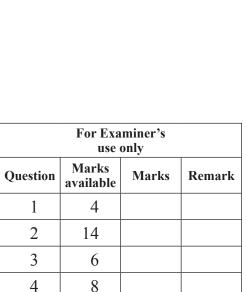
Answer all ten questions.

	IDIDATES

The total mark for this paper is 100.

Quality of written communication will be assessed in **questions** 2, 5, 8 and 10.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question. This paper is accompanied by a Case Study. You must **not** use your own annotated copy of this Case Study.



Total	100	

ADVICE TO CANDIDATES

You are advised to take account of the marks for each part question in allocating the available examination time.



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(a)	State three reasons why James considers user involvement to be so
	important at this stage.

Reason 1 Reason 2 ____ Reason 3 _____[1]

(b) State **one** reason why the involvement of a user might not be a good idea during a systems investigation process.

- James McKenna intends to allow his two trainee analysts to take part in the 2 analysis process.
 - (a) Help the trainees by identifying one fact finding technique associated with each statement in the table below.

with each statement in the table be	wo trainee analysts to take part in the ne fact finding technique associated elow. FACT FINDING TECHNIQUE
STATEMENT	FACT FINDING TECHNIQUE
Employees can be anonymous.	
Analyst can obtain detailed information from the people who know most about the system.	
Questions may be misinterpreted nd there is no way of seeking larification.	
Vill be able to see how well the ystem operates and how the mployees react to situations.	
Requires greater interpersonal skill on behalf of the analyst.	
Records may not be properly naintained and so the information rathered could be inaccurate.	
Jseful to see the procedures at first and.	
Can interact with employees at all evels in the company.	

[8]

7621

3 James McKenna has explained to Terry and Fiona that there are key aspects of the organisation that must be investigated thoroughly. Some of these are listed below.

Complete the table by providing **one** reason why each aspect should be investigated.

REASON

[6]

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Student Bounty.com ABSOLUTE ANSWERS want staff at SQUEAKY CLEAN to understand the impact that some of the problems they have discovered may have on the business.

For each of the problems below, identify **two** ways in which the problem will impact on the business.

PROBLEM	IMPACT ON BUSINESS
Caroline and Harry use standalone PCs.	1.
	2.
Stock items are sometimes not available for staff.	 2.
	2.
Harry is at least two weeks behind in creating	1.
invoices.	2.
Some client payments are not recorded.	1.
	2.
	[0]

[8]

Complete the table below.	
CHARACTERISTIC	METHODOLOGY
Very suited to business applications	
	DSDM
Produces documentation at each stage of the development.	
Uses data flow modelling.	
Large systems may be broken down into smaller tasks so that different tasks can be developed at the same time.	
	SSADM
Not possible to see the product until very late in the development cycle.	
	DSDM

[8]

trai wit	nes intends to use prototyping in the development process. He wants the nees to explain to Fiona and Terry how the characteristics associated h prototyping are suited to the development process at SQUEAKY EAN.	denteo	or Only mark
(b)	Explain what you think the trainees should say.		Y.COM
	[6]		

- (a) James McKenna has asked the trainees to provide him with their version of the context diagram. The first step in producing a context diagram is to define the main context process.
 - (i) In the space below draw the **context process** for SQUEAKY CLEAN.

Context Process

[2]

Entity 1

[2]

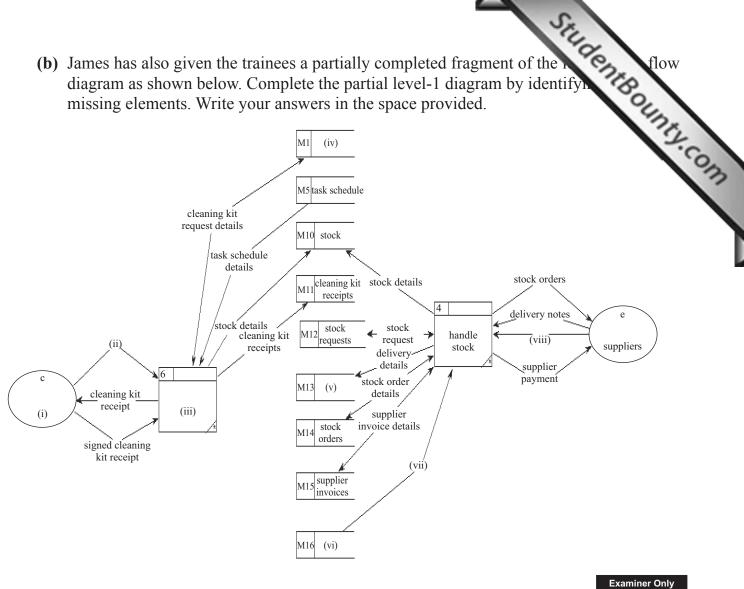
Entity 2

[2]

Entity 3

[2]

(b) James has also given the trainees a partially completed fragment of the diagram as shown below. Complete the partial level-1 diagram by identify. missing elements. Write your answers in the space provided.



(i)		

(v)	
` '	

Marks Remark

Feature ____ Example _____

(b) Identify one feature of network diagrams and give one example of where the technique could be applied in Caroline's work.

Feature _____ Example _____

Student Bounty.com (c) James has given Caroline an exercise to complete to help her understanding of the use of Gantt charts and Network Diagrams. He has asked her to list some of the activities she does each week, estimate the length of time in hours she spends on each and try to prioritise them.

	DESCRIPTION	PREDECESSOR	DURATION
A	Arrange visits	_	2
В	Conduct visits	A	10
C	Assess jobs	В	3
D	Create client requirement forms	С	3
E	Cost options	D	2
F	Prepare costing summary	Е	4
G	File copies	F	1
Н	Draw up client contracts	G	3
I	Copy contracts and post to Fiona	Н	1
J	Approve contracts	I	1
K	Send approved contracts to client	J	1

i)	Explain the purpose of the predecessor column.
	(2)

Г11

_____[1]

(a) Select which phase of testing Fiona and the programmer should be involved in giving a reason for your answer.

Fiona	
Phase of testing	
	[1]
Reason	
	[1]
Programmer	
Phase of testing	
	[1]
Reason	
	[1]

The following testing teams have been suggested.

Testing Team 1
Analyst
Fiona
Harry
Programmer
Caroline

Testing Team 2
Fiona
Harry
Programmer
Client
Terry
Cleaner

produced correctly. The	nat the new system will allow client of current contract is shown below.	nark nark
Squeaky Clean	Contract Number	77.
Agreement between		Client
of		
and		
	of SQUEAKY CLE.	AN (Provider)
	ms and conditions supplied by SQUE t the following service supplied by the	
Option:	commencing on	
Start Date:	and finishing on	
End Date:	at a rate of	
Rate:	for a period of	
Weeks:		
This signed document is leg	gally binding.	
Signed by: On behalf of the Client	Date:	
Signed by:On behalf of the Company	Date:	
Witnessed Dry	Date:	

(a) Complete the table below, identifying with a tick (\checkmark) where each field can be found in the proposed database.

FIELD	CLIENT	CONTRACT	CONTRACT OPTION	NONE
Contract Number				
Client Name				
Client Address				
Option				
Start Date				
End Date				
Rate				
Number of weeks				

[8]

(b) Explain how the end date could be determined from the database.

[1]

(a)	What is meant by the term storyboard?			
		[1]		
(b)	Identify two members of staff you feel should be involved in the development of the storyboard giving a reason for your answer in eacase.	ch		
	Staff member 1			
	Reason	[1]		
		[1]		
	Staff member 2	Г17		
	Reason	[1]		
		[1]		

THIS IS THE END OF THE QUESTION PAPER

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