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EXAMINATIONS COUNCIL OF ZAMBIA

Examination for General Certificate of Education Ordinary Level

Computer Studies

7010/1

Paper 1

Monday

14 AUGUST 2017

Candidates answer on the question pape No additional materials are required

Time: 2 hours 30 minutes

Instructions to Candidates

- 1 Write your **name**, **centre number** and **candidate number** in the spaces at the top of this page.
- There are 13 questions in this paper, 12 in Section A and 1 in Section B. Answer all questions.
 - Write your answers in the spaces on the question paper.

Information For Candidates

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

The total number of marks for this paper is 70.

Cell phones are not allowed in the Examination Room.

For Exam	iner's Use
Section A	
Section B	
Total	

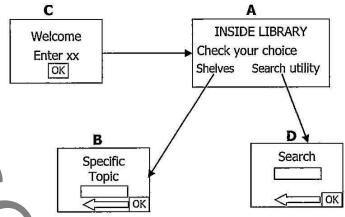
This question paper consists of 10 printed pages

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Section A

	(a)	What is a file?	
	'		[2]
	(b)	State one disadvantage of using folders.	
	7.5	Why do to the engesting system hide certain folders?	[1]
	(c)	Why does the operating system hide certain folders?	
			[2]
	(d)	Give one advantage of saving files in the same folder.	
			[1]
2	Macro	os are common in most application software.	
	(a)	Give one use of macros.	
			[1]
	(b)	Give one draw back of macros.	
			[1]
			ΓŢĴ

The diagram below shows the link of web pages of a school library website.



(a)	State information requested in C .	
		[1]
(b)	Which diagram is the home page?	
		[1]
(c)	What is the name of the computer that keeps pages of the website?	
		[1]
(d)	Give two precautions users should take when using the internet.	
41	Way 1	[1]
	Way 2	[1]
(a)	River pollution is common in large mining operations. Computer control often used to effectively deal with this problem.	is
	Name one sensor and the data it collects in this system.	
	Sensor	[1]
	Data	[1]
(b)	Give one reason why data is collected remotely and automatically.	
	Remote reason	
		[1]
	Automatic reason	

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The following is the order in which a short message (SMS) is sent and received on a mobile phone. Write the numbers from 1 to 8 in the right hand column for each stage in the correct order. Stage 1 and 5 have been done for you.

Description of Stage	Order of Stage
Message travels to recipient's mobile service storage server	5
Message sent to sender's mobile mail server	
Message tone rings on receiver's phone	
Sender composes message and presses the send button	1
Message held in recipient's in box awaiting to be read	
Mobile service provider system examines address	
Message retrieved and sent to recipient's phone	
Mobile service provider system decides how to route message	

[3]

)	(a)	Give one difference between a simulation and virtual reality.	
			[2]
	(L)		-
	(b)	Give three requirements of a virtual reality system.	
		Requirement 1	[1]
		Requirement 2	[1]
		Requirement 3	[1]
	(c)	Give one area of entertainment and one area of training that uses virtual	al
		reality.	
		Entertainment	[1]
		Training	Γ17

7	Lundu is a television technician who uses an expert system installed on his lapt to trace faults when repairing televisions.	:ор
	(a) Explain how Lundu will interact with the expert system to help diagnose fault in a television.	the
		[2]
	(b) Give one reason why files in the knowledge base need to be updated regularly.	
		[1]
8	A turtle that draws shapes on paper uses the following instructions:	
	Forward n – moves n cm forward. Backward n – moves n cm backward. Turn left t – turns left t degrees Turn right t – turns right t degrees Pen up – lift the pen off paper Pen down – lower the pen onto the paper 40 40 40	
	Write the set of instructions that makes the turtle to draw the shape shown	
	above in the directions indicated.	
	Assume that the pen is down at the start.	

9 (a) Study the following algorithm that is written in pseudocode and convert it to a flow chart.

BEGIN

Prompt user for amount

IF amount is less or equal to K5000 THEN

Calculate interest at 15% of amount

ELSE

Calculate interest at 20% of amount

END IF

Display amount

Display interest

END

[3]

(b)	What is the purpose of this algorithm?	
		-[1

	(a)	State two stages in Systems Development Life Cycle (SDLC).	
		Stage 1	[1]
		Stage 2	[1]
((b)	Which stage will the analyst specify what the user wants in the new system?	[1]
	(c)	Rather than supply the user documentation on-line, the analyst decides make a printout.	
		(i) Give one advantage of doing this.	
		(ii) Give one disadvantage of doing this.	[1]
			Γ 1]

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11 A database below was set up to show information about the largest ocean ships.

SHIP ID	YEAR BUILT	GROSS CAPACITY	COUNTRY OF REGISTRATION	COUNTRY OF CONSTRUCTION
AO	2009	225 383	UK	Finland
NI	2008	155 408	UK	Finland
MQ	2004	148 530	Japan	France
EX	1999	137 308	France	Japan
OV	1996	108 866	Germany	UK
DE	1972	77 488	Israel	UK
RF	1940	79 280	USA	USA

	(a)	How many records are snow	In the above database?	
			. •	[1]
	(b)	was typed in;	be the output if the following search condition	
		(year built < 2 000) and (co	untry of registration = country of construction	
				[1]
	(c)	Complete the SQL statement Gross capacity > 120 000.	nt below which locates ship ID from records w	with
			from largest ocean ships table	[O]
		WHERE		[2]
12	(a)	The table below shows the	type of processing and the application.	
		Fill in the appropriate applic	cation against the processing method.	
		PROCESSING SYSTEM	APPLICATION	
		Online processing		
		Batch processing		
	(b)	Define process control.		[2]
				-
		***************************************		[2]

Section B

3	Kazize	ela Manufacturers would like to computerise their existing manual order	=
	proces	ssing system. A systems analyst has been hired to work on this project.	
	(a)	Describe what the analyst would do if the proposed change does not me	et
		the requirements in the feasibility study.	
			[1]
	(b)	State three activities that would be done during the design stage.	
	6	Activity 1	[1]
		Activity 2	[1]
		Activity 3	[1]
	(c)	Write down two reasons why the system being developed must be	
	8	subjected to more than one test.	
		Reason 1	[1]
		Reason 2	[1]
	(d)	When the program of the system is being written, it is broken into mode	ıles
	(u)	Give two advantages of this.	
		Advantage 1	[1]
		Advantage 2	[1]
	(e)	This system would need additional hardware, apart from the computer	
		itself. Name two additional hardware the system might require and give	e a
		reason for each.	
		Hardware 1	[1]
		Reason	[1]

[1]

[1].

Hardware 2....

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the internet. Write down two advantages and two disadvantages of thi	S
	0
type of advertising.	
Advantage 1	[1]
Advantage 2	[1]
Disadvantage 1	[1]
Disadvantage 2	[1]
Give three items to consider in evaluating the system.	
Item 1	[1]
Item 2	[1]
Item 3	[1]
	type of advertising. Advantage 1 Advantage 2 Disadvantage 1 Disadvantage 2 Give three items to consider in evaluating the system. Item 1