MARKE	R CODE	



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TONGA GOVERNMENT

#### MINISTRY OF EDUCATION AND TRAINING

# TONGA FORM SIX CERTIFICATE 2015

# COMPUTER STUDIES

# **QUESTION AND ANSWER BOOKLET**

Time allowed: 2 Hours

#### INSTRUCTIONS

- 1. Answer ALL questions.
- 2. This examination has **TWO** Sections.

Section	Description	Marks
A	MULTIPLE CHOICE	20 Marks
В	SHORT ANSWERS	80 Marks

- 3. The answer sheet for **Section A** is found on the inside front cover (page 2). Write the answers for **Section B** on the spaces provided in this booklet.
- 4. Write your **Student Personal Identification Number (SPIN)** in the box at the top right hand corner of this page and on the last page of this booklet.
- 5. Check that this booklet contains pages 2 23 in the correct order blank.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR BEFORE YOU LEAVE THE EXAMINATION ROOM.

TOTAL MARKS

100

## MULTIPLE CHOICE ANSWER SHEET

Remember to write the letter of the correct answer only.

1.	11.	
2.	12.	
3.	13.	
4.	14.	
5.	15.	

## CHECK THE QUESTION NUMBER CAREFULLY

6.	16.	
7.	17.	
8.	18.	
9.	19.	
10.	20.	

**P.2** 

20

S.A

20

#### **MULTIPLE CHOICE**

(20 MARKS)

Write the **LETTER** of the **BEST** answer for each question in the correct box on page 2. If you want to change your answer, put a cross through your first answer and write the letter of your new choice beside the box.

1.	Most computer users refer to the as the brain of the computer.
	A. ROM B. CPU C. RAM D. Motherboard
2.	Volatile memory keeps data
	<ul><li>A. permanently</li><li>B. when power in On</li><li>C. for a very short time</li><li>D. for later use</li></ul>
3.	A good can display high quality movies or games on your computer screen.
	<ul><li>A. graphic card</li><li>B. pixel card</li><li>C. flash memory</li><li>D. projector</li></ul>
4.	The transfer data between the main components inside a computer.
	<ul><li>A. expansion slots</li><li>B. motherboard</li><li>C. bus lines</li><li>D. USB ports</li></ul>
5.	A computer with high capacity memory can
	<ul><li>A. keep many files</li><li>B. run without power</li><li>C. access storage faster</li><li>D. perform multiple tasks</li></ul>

6.	Ma	ny computers today can be able to support	USB device(s)
	C.	only one only two a maximum of five more than hundred	
7.		e Function keys on a standard keyboard are use	ed mainly for
	В. С.	simple utility specific operating system any software online operation	
8. ′	Γhe α	compressed file was sent to you v	via email by a friend.
	В. С.	comp.doc comp.avi comp.zip comp.wav	
		mputer is the person who norm lop software.	nally design and
	В.	technician programmer system analyst multimedia specialist	
10.	Hav use	ving a Firewall system is the besters.	for Internet
		security and protection antivirus system connection speed legal protection	

11.	A te	xt processor can NOT	but a word processor can.
	В. С.	print documents save documents insert images copy and paste	
12.		ou want to send the same docur d processor, you can use the _	nent to different addresses using a feature
	C.	thesaurus mail merging word wrapping spell checking	
13.	Α_	can best demonstr	ate values as part of a whole.
	C.	line graph bar chart pie chart scattergram	
14.	A sp	oreadsheet formula normally sta	rts with
	A. B. C. D.	- + % =	
15.	A gi	ven cell reference such as A1:C	10 can be referred to as
	C.	active cells a cell range selected group normal cells	
16.		ng an absolute cell references in tay	a spreadsheet allows cell references
	A. B. C. D.	formatted normal changed fixed	

17.	You	can use a Database system for
		checking data errors keeping police records analyzing data updating financial reports
18.	A d	atabase table contains multiple
	В. С.	rows and columns data values cell types strings
19.	You	can move a table from a Database into a Spreadsheet by using the
	В. С.	reporting importing exporting SQL query
20.	Data	abase records are represented on a table as
	A. B. C.	

#### **SECTION B: SHORT ANSWERS**

#### (80 Marks)

Answer ALL five questions. Each question is worth 16 marks.

## **QUESTION ONE**

- 1. A computer is made up of many different computer parts as shown below. A collection of internal computer parts and some basic peripherals that can be used to build a computer.
  - a. Complete the table below with the computer parts that you may need to use inside a computer box and the basic peripherals that can be connected to the computer box.



Inside the computer	Basic Peripherals
i)	3)
,	1)
ii)	ii)
iii)	iii)
iv)	iv)

2 ma	2 marks	
2		
1		
0		
NR		

- b. Describe the basic function of each computer part that you can use inside the computer.
  - i) Part 1

1 ma	1 mark	
1		
0		
NR		

-			

ii) Part 2		1 ma	rk
,		1	
		0	
		NR	
iii) Part 3		1 mar	r <b>k</b>
		1	
		0	
		NR	
iv) Part 4		1 mar	·k
		1	
		0	
		NR	
i) ii)		2 ma 2 1 0 NR	arks
via the serial o	onal devices can be connected to the computer parallel ports. Describe the main difference ial and parallel connections.		
		1 m	nark
		1	
		0	
		NR	

c.

d.

O 1:	itions causing hardware problems  1 m
Condi	tions causing hardware problems  1 0
i)	ii) NR
<ul><li>Describe two comm</li><li>by these conditions</li><li>i) Problem 1</li></ul>	non hardware problems caused
-,	1
	1
	0
	NF
") P 11 0	
ii) Problem 2	1
	1
	0
	N
	steps that you need to take in order to iter hardware from problems caused by;

ii)		$\circ$
111	condition	1.

<del>.</del>	2 marks	
	2	
	1	
	0	
	NR	

#### **QUESTION TWO**

- 1. After buying his first laptop computer, Fifita was told that he must first install an Operating System (OS).
  - a. Briefly explain why Fifita must install an operating system on his laptop.

1 ma	rk
1	
0	
NR	

b. Fill the table below with four (4) of the basic functions of an operating system.

	OS functions	
i)		
ii)		
iii)		
iv)		

2 ma	2 marks	
2		
1		
0		
NR		

c. Describe Graphic User Interface (GUI), a major component of an operating system.

1 mark	
1	
0	
NR	

2. Chip-based operating systems are used by many devices today. Name one of those devices and describe an important feature of a chip-based operating system.

2 marks	
2	
1	
0	
NR	

		is a graphic designer and she needs a good printer at her graphics and work.		
a.		nggest a good type of printer for Talita and provide to (2) important reasons for your suggestion.		
	i)	type of printer		
	ii)	two (2) main reasons.		
			2 ma	rks
			1	
			0	
			NR	
b.		ame a common printer error that Talita may run into with the pe of printer and suggest a way to fix the error (a possible solution)		ark
	i)	a common error	1	<u> </u>
	-,		0 NR	
	ii)	a possible solution		
			1 m	ark
			1	T
			0	
			NR	
	_	uters and digital devices use many different media echnologies for storing computer data. Describe		
		anderstanding of the following storage concepts.		
yo	our u	anderstanding of the following storage concepts.	1 n	nark
	our u		<b>1</b> m	nark
yo	our u	anderstanding of the following storage concepts.		nark

ory (ROM)	1 ma	arĸ
	1	
	0	
	NR	
he ASCII code and the binary system are computer files.		
	2 ma	ırk
	2	
	1	
	0	
	NR	
ages is one of the main types of computer		
ages is one of the main types of computer function of programming languages.		
	1 m	ar
	1	ar
		ar
	1	ar
	0	ar
function of programming languages.	0	
function of programming languages.	1 0 NR	
function of programming languages.	1 0 NR	

## **QUESTION THREE**

- 1. The table below contains different formatting features applied on different parts of a word processing document.
  - a. Complete the table with the formatting features applied on each part of the document.

Parts of a document	Formatting feature
An <b>integrated package</b> is a software package that contains a <b>suite</b> - several applications whose data is compatible	i)
These packages usually include word processing, spreadsheet and database applications. The most well-known example is	ii)
☐ Microsoft Office	
Examples of integrated packages The following suites are examples of editions; their contents may vary according to whether you purchase the package for home use or for an organisation.	iii)
Go to the <u>vendor websites</u> for more detail about the contents of these suites.	iv)
http://www.lotus.com/	v)
You do have to pay for some versions which have been packaged and are supported, but it's still much cheaper than other operating systems.	vi)

3 marks		
3		
2		
1		
0		
NR		

- b. Describe the effect if the following word processing feature is applied on the last sentence of the document.
  - i) Full Justify

1 mark	
1	
0	
NR	

	ii)	Increase Indent		
			1 ma	ark
			1	
			0	
			NR	
c.		e document uses the font style "Times new Roman". Describe meaning of the following font styles.  Fixed spacing		
			1 ma	ark
			1	
			0	
			NR	
	ii)	Proportional spacing		
			1 ma	rk
			0	
			NR	
d.		efly explain when you need to use the Find and Replace ture on a word document.		
			1 ma	rk
			1	
			0	
			NR	

- 2. As a student, you should be concerned with the growing ethical issues and illegal activities (unacceptable behavior) on the Internet.
  - a. For each of the given ethical concern or issue, provide an example of an Internet activity that can cause such a concern or issue.

Ethical	Internet Activity
concern or	
issue	
Privacy concern	i)
Copyright issue	ii)
Corporate confidentiality concern	iii)
Piracy issue	iv)

b. Discuss how students can be prevented from being involved in activities or actions that can be regarded as ethical concerns or issues when using the Internet.

2 marks		
2		
1		
0		
NR		

3. Information and Communication Technology (ICT) has changed the way we live and work. Discuss how the use of ICT changed the way people work.

-
-

2 marks	
2	
1	
0	
NR	

#### **QUESTION FOUR**

1. The Mo'ui Fuoloa Tennis club is organizing a team tour to Vava'u and each member is required to pay \$100 each as contribution to their airfare. The table below is a worksheet showing each member's contributions so far.

	E9 <b>▼</b>	o fx				
	Α	В	С	D	Е	F
1	Mo'ui fuoloa Tennis	Club				
2	<b>Team Contribution</b>					
3						
4	Name	Collection 1	Collection 2	Total	IC or C	
5	Sifa	35	45			
6	Movete	56	60			
7	Taani	35	70			
8	Fiona	44	68			
9	Kaati	25	54			
10						
11	Average Amount					
12						

a. Describe why using a spreadsheet is useful for recording the type of information above.

1 mark	
1	
0	
NR	

b. Write down the basic formula for finding the TOTAL collections for member "Sifa".

1 ma	1 mark	
1		
0		
NR		

c. Describe how to quickly apply the same formula to the rest

of the members.		

1 mark	
1	
0	
NR	

d. In cell B11, write down a formula using the Average function to calculate the members' average contribution for Collection 1.

1 mark		
1		
0		
NR		

collection is more or equal to 100 OR IC if the total collection	2 ma	rks
is less than 100.	2	
	1	
	NR	
Describe how you can change the format for the group of cells B5:D9 to currency with 2 decimal places.		
	1 ma	ırk
	1	
	0	
	NR	
total collection.	1 ma	ark
	1	
	0	
	NR	
Write down the required steps for creating a column chart to present both the members' collections.		
	2 m.	ark
	2	ark
		ark

	With a spreadsheet application, you can print only a part of a worksheet. Describe the required steps in preparing only a group of worksheet cells for printing.		
		-	
		2 ma	ırk
		2	
		_ 1	
		0 NR	
			<u> </u>
Ex	the owner of a book store, you wanted to sell 100 books next week. plain how the "what if" analysis feature which is available with any spreadsheet application can help you with your book sales.	_	
Ex	plain how the "what if" analysis feature which is available with	2 ma	ark
Ex	plain how the "what if" analysis feature which is available with	_ 2	ark
Ex	plain how the "what if" analysis feature which is available with		ark

3. Fill the table below with the proper spreadsheet function required for performing each given task.

Task	Function
To quickly calculate the total number of names on a list	i)
To calculate the total amount in a list	ii)
To find the highest amount in the list	iii)
To find the lowest amount in the list	iv)

2 marks	
2	
1	
0	
NR	

## **QUESTION FIVE**

1.	You have been asked to develop a Database for the Vaiola hospital.
	Use your understanding of database systems to answer the
	questions that follow.

a.	Name one database table that you can create to keep specific
	type of information for the hospital.

	1 ma	ırk	
<u>Table name</u> :	1		
	0		
	NR		

b. Using the database table above, fill the table below with four (4) required fields and datatypes as well as some sample data values.

Table Name:			
Field	Data Type	Value	
i)			
ii)			
iii)			
iv)			

4 marks		
4		
3		
2		
1		
0		
NR		

c. Describe two (2) main advantages of using a Database for the Hospital.

i)

1 ma	rk
1	
0	
NR	

ii)

-
- [

1 ma	ırk
1	
0	
NR	

2. The school Drama Club collected contributions from students for their annual concert tour. A sample of the information that they kept in their record book is given below.

Table name: Student Contribution

Contribution Information: students' contributions, classes and student villages.

Fane	\$25	Class 9	Afa
Kepu	\$30	Class 11	Nomuka
Maile	\$67	Class 7	Neiafu
Fepaki	\$65	Class 9	Houma

a. Write down a query that can provide a list of names and their contribution in ascending order.

2 ma	rks
2	
1	
0	
NR	

b. Display the result from the query in question a. above.

1 ma	rk
1	
0	
NR	

c. Write a query to list the class 9 names and their contribution only.

2 ma	rks
2	
 1	
0	
 NR	

d. Display the result from the query in question c. above.

1 ma	ırk
1	
0	
NR	

							1 ma
							1
						<del> </del>	0
							NR
	ibe the effe y statement AND	ollowing SQ	QL operat	tors whe	n used in	a	
query	y statement	ollowing SC	QL operat	tors whe	n used in	a	1 m
query	y statement	following SQ	QL operat	tors whe	n used in	а	1 m 1 0
query	y statement	following SQ	QL operat	tors whe	n used in	a	1

NR

Stude	nt Perso	nal Iden	tificatio	on Numl	per (SPIN)

# TONGA FORM SIX CERTIFICATE

# **COMPUTER STUDIES**

# 2015

(Marker's Use Only)

SECTIONS	MARK	CHECK MARKER	TOTAL
Multiple Choice			20
Question One			16
Question Two			16
Question Three			16
Question Four			16
Question Five			16
TOTAL			100