INSTRUCTIONS
1. Answer ALL questions.

2. Write your Student Personal Identification Number (SPIN) on the top right hand corner of this page and on the last page.

4. The paper is out of 100 marks and is apportioned as follows.

   SECTION A   MULTIPLE CHOICE   20 MARKS
   SECTION B   7 SHORT ANSWERS QUESTIONS  80 MARKS

5. The answer sheet for SECTION A is found on the inside front cover (page 2)

6. Check that this Booklet contains pages 2 – 31 in the correct order.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

TOTAL MARKS 100
## MULTIPLE CHOICE ANSWER SHEET

Remember to write the letter of the correct answer only.

<p>| | | | | |</p>
<table>
<thead>
<tr>
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<tbody>
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<td>1.</td>
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<td>11.</td>
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<td>5.</td>
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<td>15.</td>
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### CHECK THE QUESTION NUMBER CAREFULLY

<p>| | | | | |</p>
<table>
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<tbody>
<tr>
<td>6.</td>
<td></td>
<td>16.</td>
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<td>7.</td>
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<td>9.</td>
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<td>19.</td>
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<td>10.</td>
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<td>20.</td>
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</tbody>
</table>
SECTION A    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. A microcomputer is a ________________________________________________.
   A. computer with the fastest processor  
   B. computer that can be used for word processing  
   C. computer that can control very big databases  
   D. computer that handles huge scientific researches

2. ASCII is used in computing for ________________________________.
   A. data compression  
   B. coding characters  
   C. sending information  
   D. analysing data

3. The binary code 01001110 is equal to _____ in decimal form.
   A. 78  
   B. 79  
   C. 98  
   D. 97

4. The copyright symbol is ©. Copyright is a company’s ____________________.
   A. legal right for protecting their information  
   B. legal right for selling or distribution of their own software  
   C. legal right to share their information without permission  
   D. legal right to access data owned by another company
Use the diagram below to answer question 5.

Use the diagram below to answer questions 6 - 7.

The diagram below shows the **Read and Write head** of a Hard Disk drive. Letters indicate particles that can cause damages to the Read and Write head.

5. The correct path for the file IAs.xls is ____________________________.
   A. C:/Eua/IAs.xls
   B. C:/Eua/EHS/IAs.xls
   C. Euah/EHS/IAs.xls
   D. EHS/IAs.xls

6. The letter “c” best represents a ____________________________.
   A. water droplets
   B. dust particle
   C. loose wire inside the disk
   D. piece of metal
7. The possible problem to the hard disk caused by the particle “c” is ______________________________.

A. damaging the magnetic coating and data will not be affected
B. damaging the Read and Write head and data will be affected
C. becoming a part of the magnetic coating
D. crashing the computer system

8. The table below is a summary of a DVD-Rewritable disk with ___________ storage type and ___________ speed.

<table>
<thead>
<tr>
<th>Device</th>
<th>Storage Type</th>
<th>Access Speed</th>
<th>Approx. Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVD-RW</td>
<td>i.</td>
<td>ii.</td>
<td>Up to 4.7 GB on a single-sided DVD</td>
</tr>
</tbody>
</table>

A. i: magnetic  ii: very fast.
B. i: optical   ii: slow.
C. i: optical   ii: fast.
D. i: magnetic  ii: very slow.

**Use the diagram below to answer questions 9 – 10.**

9. The box labeled “A” represents the _______________ of a computer system.

A. input
B. storage
C. RAM
D. ALU
10. The main function of the CPU is to __________________________.

A. protect hardware and data from viruses and unauthorized access
B. control the processing of data in the computer
C. control the use of applications in the computer
D. protect all system and user data

**Use the information below to answer questions 11 – 12.**

Ana is learning about Operating Systems (OS) at school. During class, she wonders if her computer at home has an OS.

11. What activities is ‘Ana likely to use her OS for?

A. Creating worksheets and graphs.
B. Managing and saving of files.
C. Creating of brochures and web sites.
D. Downloading of music and video clips from the Internet.

12. A multi-user and multi-tasking OS allows ________________.

A. only one person using word processing at a time
B. two or more people using different applications at the same time.
C. two or more people using only the same application at a time.
D. only one person using different applications at the same time.

13. Lalanga is an educational software suite that requires a license key for installation. The Lalanga Software Suite is likely to be ____________.

A. free for distribution without any payment
B. available for a free trial and can pay later
C. shared by users without charges
D. expensive and available for copying

14. Adobe Page Maker and Corel Quattro Pro are names of ____________ software.

A. programming
B. system
C. application
D. utility
Use the extract below to answer questions 15 – 16.

15. The word processing format on the paragraph in lines 3-5 is _____________.
   A. hanging indented  
   B. first line indented  
   C. left aligned  
   D. right aligned

16. The word Tu’i Ha’atakalaua on line 4 and Tu’i Kanokupolu has red underlined. The reason for this is both _________________.
   A. words are too long and must be shorten  
   B. words are not in the word processing dictionary  
   C. words are grammatically incorrect  
   D. words need to be in italics

17. ONE (1) of the main advantages of an electronic spreadsheet is _____________.
   A. using cells with numerical data  
   B. storing data that are related in a logical order  
   C. the ability to recalculate itself once a cell value is changed  
   D. the ability to process text or labels only
18. To wrap the text inside a spreadsheet cell is to use ________________.

A. format, cells, font  
B. format, cells, protection  
C. format, cells, number  
D. format, cells, alignment

**Use the table below to answer questions 19 – 20.**

<table>
<thead>
<tr>
<th>NAME</th>
<th>SCHOOL</th>
<th>AGE</th>
<th>CLUB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mele Tongia</td>
<td>Tonga High School</td>
<td>15</td>
<td>Nuku’alofa Eleven</td>
</tr>
<tr>
<td>Mary Manu</td>
<td>Tailulu College</td>
<td>17</td>
<td>Nuku’alofa Eleven</td>
</tr>
<tr>
<td>Mia Mafi</td>
<td>Queen Salote College</td>
<td>16</td>
<td>Nuku’alofa Eleven</td>
</tr>
</tbody>
</table>

19. The table is a report from a database. What are the fields selected for the report?

A. Name and Age  
B. Name, school, age and club  
C. School  
D. Name and school

20. The table was sorted using the ____________ fields.

A. Name and Age.  
B. Club and Name  
C. School and Age  
D. School and Name
SECTION B    SHORT ANSWERS       (80 MARKS)

QUESTION ONE: GENERAL COMPUTER KNOWLEDGE        (16 Marks)

1. Explain the main differences between a Supercomputer and a Mainframe Computer.

____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________

(2 marks)

2. Use the diagram below to answer the questions that follow.

A map of the Maamaloa University computer network is shown on the diagram.

i. Circle and Label the following types of Network on the diagram.
   a. LAN
   b. WAN              (1 mark)

ii. Explain ONE (1) major difference between a LAN and a WAN.

____________________________________________________________________________
____________________________________________________________________________

(1 mark)
iii. Describe ONE (1) of the main advantages of a computer network.

____________________________________________________________________________
____________________________________________________________________________
(1 mark)

3. Pauline has 600 Megabytes (MB) of data and Tevita has 700 Bytes (B) of data. They need to save the two files into a 2 Gigabytes (GB) hard disk.

i. 600 MB = __________ GB

ii. 700 KB = _________ GB

(2 marks)

iii. Briefly explain if the 2 GB hard disk has the capacity to store both the files.

____________________________________________________________________________
(1 mark)

4. Use the information provided to identify the ethical issue (unaccepted behavior) presented.

Tupou works as Vice President of the Tuitui Software Company in Pelehake. Her team of 4 software engineers is writing a program for a Mobile Phone company. Tupou discloses to a rival mobile phone company the program and gets paid lots of money for this.

i. Describe the ethical issue identified:___________________________________________
____________________________________________________________________________
(1 mark)
Ha’afeva High School has records in their database from 1985 up to 2014. Laumanu wants to apply for a scholarship and needs her academic record from Ha’afeva High School. Unknown to Laumanu, the school secretary has written to the scholarship officer telling her of Laumanu's health records where it states that she is a HIV Positive individual. This lessens Laumanu's chances of getting a scholarship even though she is one of the top students.

ii. Describe the ethical issue identified:_________________________________________

____________________________________________________________________________

(1 mark)

5. Use the diagram below to answer the questions that follow.

i. Fill the table with the correct lable that corresponds to the following computer terms.

<table>
<thead>
<tr>
<th>Computer term</th>
<th>Lable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filename</td>
<td>d</td>
</tr>
<tr>
<td>Computer drive</td>
<td></td>
</tr>
<tr>
<td>File extension</td>
<td></td>
</tr>
<tr>
<td>Main folder</td>
<td></td>
</tr>
<tr>
<td>Sub folders</td>
<td></td>
</tr>
</tbody>
</table>

(2 marks)

ii. Explain the importance of using a filename.

____________________________________________________________________________

____________________________________________________________________________

(1 mark)
6. Use the diagram below to answer the questions that follow.

   ![Diagram of a file explorer window]

   i. Using the opened folder shown above, provide the filename of the most recent created file and its creation date.

      **File Name:** _________________________________
      **Creation Date:** _________________________________

      (1 mark)

   ii. Provide TWO (2) different file types shown in the opened folder.

      a. _____________________________________________
      b. _____________________________________________

      (1 mark)

   iii. Briefly explain how to move the file “Conclusion” to the “Youcam” folder.

      _________________________________________________________________________________
      _________________________________________________________________________________
      _________________________________________________________________________________

      (1 mark)
QUESTION TWO : HARDWARE

Use the diagram below to answer the questions that follow.

i. Name the hardware components labelled a to j.

Hardware Components:

a. _______________________________________

b. _______________________________________

c. _______________________________________

d. _______________________________________

e. _______________________________________

f. _______________________________________

g. _______________________________________

h. _______________________________________

i. _______________________________________

j. _______________________________________

(3 marks)
ii. On the table below, sort the hardware devices above into its correct hardware type.

<table>
<thead>
<tr>
<th>INPUT</th>
<th>OUTPUT</th>
<th>STORAGE</th>
<th>BOTH INPUT AND OUTPUT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(2 marks)

2. **Use the diagram below to answer the questions that follow.**

The diagram below shows how data is transmitted from **Computer A** to **Computer B**.

![Diagram showing data transmission from Computer A to Computer B]

i. Name the type of Data Transmission shown on the above diagram.

______________________________________________________________________________

(1 mark)

ii. Describe an advantage of the above type of transmission.

______________________________________________________________________________

(1 mark)
3 In the box below, draw a diagram to demonstrate how a modem works.
4. **Use the diagram below to answer the questions that follow.**

The graph below shows Tonga Football's Electricity Reading of 2 hourly readings.

![Graph of Tonga Football's Electricity Reading](image)

i. Put a cross on the graph above to show the time that the following power problems may occur.

   a. Spike
   b. Power Outage  

   (1 mark)

ii. Describe the difference between a Brownout and a Blackout.

   __________________________________________________________
   __________________________________________________________
   __________________________________________________________

   (1 mark)

iii. Provide ONE (1) possible solution to prevent a computer hardware failure caused by the above power problems.

   __________________________________________________________
   __________________________________________________________
   __________________________________________________________

   (1 mark)
5. Describe ONE (1) of the main differences between Impact Printers and Non-impact Printers.

______________________________________________________________________________
______________________________________________________________________________
(1 mark)

6. Describe the function of the following type of keys of a standard QWERTY keyboard.

i. Modifier Keys: ____________________________________________________

ii. Editing Keys: ____________________________________________________
(1 mark)

7. Describe ONE (1) major difference between a Primary Storage and a Secondary Storage.

______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________
(1 mark)

8. Using the following computer components, identify all the different storage devices and sort them into their correct storage type.

CMOS, FD, RAM, HD, NVRAM, MOUSE, CD-ROM, ROM, KEYBOARD, TAPE, CDR, FLASH DRIVE, MONITOR, MODEM, CD, CPU, CD-RW

Enter the storage devices into their correct spaces in the table below.

<table>
<thead>
<tr>
<th>PRIMARY STORAGE</th>
<th>SECONDARY STORAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(1 mark)
QUESTION THREE: WORD PROCESSING

1. Use the extract below to answer the questions that follows

The Coronation of His Majesty, King Tupou VI is scheduled for the 4th of July 2015

On the table below explain the outcome if you use the COPY or CUT feature on the extract above.

<table>
<thead>
<tr>
<th>Action</th>
<th>Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>COPY AND PASTE.</td>
<td>i.</td>
</tr>
<tr>
<td>CUT and PASTE</td>
<td>ii.</td>
</tr>
</tbody>
</table>

(1 mark)

2. Explain the differences between Proportional Spacing and Fixed Spacing.

____________________________________________________________________________
____________________________________________________________________________

(1 mark)

3. Use the diagram below to answer the questions that follow.

i. What is the Left and Right margin of the page?

Left:______________________________________
Right:______________________________________ (1 mark)
ii. Describe TWO (2) of the four types of Tab-stop shown on the diagram on page 18.

1. ______________________________________________________________________
   ______________________________________________________________________

2. ______________________________________________________________________
   ______________________________________________________________________

   (1 mark)

5. Describe the following word processing features.

i. Mail merge

   ______________________________________________________________________
   ______________________________________________________________________
   ______________________________________________________________________

   (1 mark)

ii. Find and Replace

   ______________________________________________________________________
   ______________________________________________________________________

   (1 mark)
6. The space below is a picture of a page. Use your understanding of word processing features to enter the following on the empty space provided.

i. The phrase "TSC 2014" as a header and centre aligned

ii. Footer: Today's date - Left Aligned and Page Number “1 of 2” centered.
QUESTION FOUR: SPREADSHEET

1. Use the Spreadsheet below to answer the questions that follow.

   ![Spreadsheet Image]

   **Fakamaketi Company Payroll Calculation**

<table>
<thead>
<tr>
<th>Name</th>
<th>Wages</th>
<th>Tax</th>
<th>Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latu</td>
<td>$247.35</td>
<td>$37.10</td>
<td>$210.25</td>
</tr>
<tr>
<td>Fakatelo</td>
<td>$344.20</td>
<td>$51.63</td>
<td>$292.57</td>
</tr>
<tr>
<td>Sinamoni</td>
<td>$400.00</td>
<td>$60.00</td>
<td>$340.00</td>
</tr>
<tr>
<td>Mia Tuti</td>
<td>$345.00</td>
<td>$51.75</td>
<td>$293.25</td>
</tr>
<tr>
<td>Lelu</td>
<td>$300.00</td>
<td>$45.00</td>
<td>$255.00</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td>$1,636.55</td>
<td>$245.48</td>
<td>$1,391.07</td>
</tr>
<tr>
<td><strong>Means</strong></td>
<td>$327.31</td>
<td>$49.10</td>
<td>$278.21</td>
</tr>
</tbody>
</table>

i. Write the function that can be used to calculate the value in cell C10.

   ______________________________________________________________________________

   (1 mark)

ii. Write the function that can be used to calculate the value in cell E4.
   (Income = Wages – Tax)

   ______________________________________________________________________________

   (1 mark)

iii. Provide an example of relative cell addressing.

   ______________________________________________________________________________

   ______________________________________________________________________________

   (1 mark)
2. Use the spreadsheet below to answer the questions that follow.

![Spreadsheet Image]

i. In cell B14, write a formula to find the cheapest fish price.

____________________________________________________________________________
(1 mark)

ii. In cell B15, write a formula to count the number of Fish Type.

____________________________________________________________________________
(1 mark)

iii. Enter a formula to calculate the sales tax in cell E5. Use the sale tax percentage in cell G3.

____________________________________________________________________________
(1 mark)

iv. Write an **IF Statement** in cell G5 to write "Decrease Price" if the Number of Kg sold was less than 10 kg and OKAY if the Number of KG sold was greater than 10.

____________________________________________________________________________
(2 marks)
QUESTION FIVE : DATABASE (8 MARKS)

1. Describe TWO (2) main advantages of a Database.

____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
(2 marks)

2. Use the Database table below to answer the questions that follow.

<table>
<thead>
<tr>
<th>PLAYER ID</th>
<th>LNAME</th>
<th>FNAME</th>
<th>CLUB</th>
<th>CAPPED</th>
</tr>
</thead>
<tbody>
<tr>
<td>NE 200</td>
<td>TUKIA</td>
<td>PIULA</td>
<td>Kolofou 11</td>
<td>0</td>
</tr>
<tr>
<td>MC101</td>
<td>FILO</td>
<td>KULIA</td>
<td>MARIS</td>
<td>18</td>
</tr>
<tr>
<td>TV201</td>
<td>FUNAKI</td>
<td>VEA</td>
<td>TAVATU'UTOLU</td>
<td>12</td>
</tr>
<tr>
<td>NE206</td>
<td>VAENUKU</td>
<td>SELA</td>
<td>Kolofou 11</td>
<td>18</td>
</tr>
<tr>
<td>TV205</td>
<td>TONGA</td>
<td>PAULINE</td>
<td>TAATUUTOLU</td>
<td>10</td>
</tr>
</tbody>
</table>

Fill in the blanks with the correct answer.

i. The database table contains __________ records and _______ fields. It has ______ different types of data type. The best Primary Key is the __________ field.
(2 marks)

ii. Write the result for sorting the table using LNAME in ascending order.

___________________________________________________________________________
(1 mark)
3. Use the database tables below to answer the questions that follow.

Table 1: **Player List**

Table 2: **Bio Data**

i. Write down the result from the query.
“SELECT Players ID, Last Name FROM bio data Where Shoe Sizes > 7 AND Clubs is Tavatu'utolu.”

(1 mark)
ii. Create a Query to display the Players ID with Shoe Sizes greater than 7

The table BIO DATA was modified.

iii. Write a query to display the names of players and their number of shoes where the Price of One Shoe is less than 30.
QUESTION SIX: OPERATING SYSTEM  

(12 MARKS)


____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________

(2 marks)

2. The list below are Operating Systems for Micro Computers.

Server, Unix, Linux, Novell Netware, IBM/2, MS DOS, Microsoft Windows.

i. Use the table below to sort them into their correct Type of OS.

<table>
<thead>
<tr>
<th>Single-User</th>
<th>Single-User</th>
<th>Multi-User</th>
<th>Network OS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Server</td>
<td>Unix</td>
<td>Linux</td>
<td>Novell Netware</td>
</tr>
<tr>
<td>Single-User</td>
<td>Single-Tasking OS</td>
<td>Multi-User</td>
<td>Multi-Tasking OS</td>
</tr>
<tr>
<td>IBM/2</td>
<td>MS DOS</td>
<td>Microsoft Windows</td>
<td></td>
</tr>
</tbody>
</table>

(2 marks)

ii. Describe ONE (1) of the advantages of a Network OS.

____________________________________________________________________________
____________________________________________________________________________

(1 mark)

3. Explain the start-up procedures of an IBM standard micro-computer.

____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________
____________________________________________________________________________

(3 marks)
4. Your Operating System recommends that you create a System Back Up disk.

i. When are you most likely to use a System Back Up Disk?

____________________________________________________________________________

(1 mark)

ii. Name TWO (2) storage devices that are best used for Backup System Disk.

____________________________________________________________________________

(1 mark)

5. Give an example of a Printer Error message given by the Operating System and suggest a solution.

____________________________________________________________________________

____________________________________________________________________________

____________________________________________________________________________

(2 marks)
1. Use the diagram below to answer the questions that follow.

i. Explain the difference between System Software and Application Software.

____________________________________________________________________________
____________________________________________________________________________

(1 mark)

ii. On the above diagram, write the TWO (2) major category of System Software for letters a and b.

   a:_________________________________________
   b:_________________________________________

(2 marks)
2. Read the story below and answer the questions that follow.

Millions hit by computer virus
by TIM UTTON, Daily Mail
The internet was under attack last night by the fastest-growing computer virus in history. Worldwide systems were buckling after the 'Sobig.F' spread to 134 countries in just 96 hours, generating tens of millions of e-mails.

Experts fear it could increase the volume of electronic traffic by a staggering 60 per cent, slowing the internet to a crawl.

It is believed to have cost British businesses alone hundreds of millions in lost orders and system crashes. The global cost will be immense.

Individual companies have been bombarded with millions of copies of the virus, while home users have seen their machines "jammed" by up to 6,000.

The PC world chain said tens of thousands of customers had brought in computers to be "cleaned" by technicians.

Experts say Sobig appears to have been written by senders of "spam" - unwanted junk e-mail - trying to find ways past internet filters which block their messages.

The new digital onslaught comes hard on the heels of two other major viruses, Blaster and Nachi. "This is the worst barrage of viruses in the history of computing," said Graham Cluley of Sophos Anti-Virus.

"Even companies who are properly protected are feeling a slowdown."

"Sobig.F is the fastest-spreading virus of all time and if it carries on at this pace for a few more days it will become the most prevalent too."

MessageLabs, a British-based Internet security firm, said it had intercepted more than a million copies of Sobig.F in 24 hours, more than for any other virus.

i. Define a Computer Virus.

____________________________________________________________________________
____________________________________________________________________________
(1 mark)

ii. Sobig.F is said to have spread by email over the Internet. Describe TWO (2) ways a computer virus spread.

____________________________________________________________________________
____________________________________________________________________________
(2 marks)
iii. What type of computer virus is Sobig.F?

____________________________________________________________________________

____________________________________________________________________________

(1 mark)

iv. Name another type of a computer virus.

____________________________________________________________________________

____________________________________________________________________________

(1 mark)

3. Sort the following Application Software into their correct type.
IBM Lotus WordPro, Corel Quatro Pro, Lotus 1-2-3, Adobe Page Maker, Quark Express, MS Access, Corel Paradox

i. Desktop Publishing application

____________________________________________________________________________

____________________________________________________________________________

(1 mark)

ii. Database application

____________________________________________________________________________

____________________________________________________________________________

(1 mark)

4. Describe the following software licensing and distribution method.

i. GPL License

____________________________________________________________________________

____________________________________________________________________________

(1 mark)

ii. Public Domain

____________________________________________________________________________

____________________________________________________________________________

(1 mark)
# TONGA SCHOOL CERTIFICATE

## 2014

### COMPUTER STUDIES

<table>
<thead>
<tr>
<th>SECTIONS</th>
<th>MARK</th>
<th>CHECK MARKER</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Multiple Choice</td>
<td></td>
<td>20</td>
</tr>
<tr>
<td>B</td>
<td>QUESTION 1</td>
<td></td>
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