VICTORIAN CURRICULUM AND ASSESSMENT AUTHORITY

Victorian Certificate of Education
2007

SUPERVISOR TO ATTACH PROCESSING LABEL HERE

STUDENT NUMBER

Figures

Words

Letter

VCE VET INFORMATION TECHNOLOGY
(General)

Written examination

Friday 2 November 2007

Reading time: 3.00 pm to 3.15 pm (15 minutes)
Writing time: 3.15 pm to 4.45 pm (1 hour 30 minutes)

QUESTION AND ANSWER BOOK

Structure of book

<table>
<thead>
<tr>
<th>Section</th>
<th>Number of questions</th>
<th>Number of questions to be answered</th>
<th>Number of marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>20</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>B</td>
<td>17</td>
<td>17</td>
<td>50</td>
</tr>
<tr>
<td>C</td>
<td>7</td>
<td>7</td>
<td>20</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>90</td>
</tr>
</tbody>
</table>

• Students are permitted to bring into the examination room: pens, pencils, highlighters, erasers, sharpeners and rulers.
• Students are NOT permitted to bring into the examination room: blank sheets of paper and/or white out liquid/tape.
• No calculator is allowed in this examination.

Materials supplied
• Question and answer book of 21 pages.
• Answer sheet for multiple-choice questions.

Instructions
• Write your student number in the space provided above on this page.
• Check that your name and student number as printed on your answer sheet for multiple-choice questions are correct and sign your name in the space provided to verify this.
• All written responses must be in English.

At the end of the examination
• Place the answer sheet for multiple-choice questions inside the front cover of this book.

Students are NOT permitted to bring mobile phones and/or any other unauthorised electronic devices into the examination room.

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Question 1
In the context of user documentation, a wizard can be defined as a
A. form of technical reference for a software program.
B. set of procedural standards that everyone in an organisation must use.
C. form of online documentation that provides step-by-step assistance when creating documents.
D. time-saving template for creating documents and worksheets that meet specific organisational standards.

Question 2
Marika is a journalist who works from home and sends her completed articles to her editor by email. Unfortunately, Marika badly sprained both of her wrists while rock climbing last weekend and she will be unable to type for the next three weeks. Marika still needs to complete her article by a certain time each week.
What new technology would best help Marika with her work?
A. tape recorder
B. wireless mouse
C. ergonomic keyboard
D. voice recognition software

Question 3
The most important factor to consider when purchasing new software is
A. how much money it will cost.
B. the amount of hard drive storage required.
C. the amount of RAM required.
D. the operating system version required.

Question 4
Which one of the following is not an example of client feedback for a Help Desk?
A. one-to-one training
B. telephone survey
C. online feedback form
D. asking for further details on a problem
Question 5
Sandra is updating a company profile report. She has been informed that the company has recently restructured and has a different trading name.
What is the fastest method to update the report with the new company name?
A. retype the entire report, entering the new name as you type
B. use the automatic correct feature to correct the old company name where it occurs in the report
C. use the Replace feature to replace all occurrences of the old company name with the new name
D. use the Find feature to locate all occurrences of the old company name and type in the new name

Question 6
The table below compares the specifications for four computer systems.

<table>
<thead>
<tr>
<th>Components</th>
<th>System 1</th>
<th>System 2</th>
<th>System 3</th>
<th>System 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel Core2 Duo E6300</td>
<td>3.4 GHz Intel Pentium 4 650</td>
<td>1 GHz Intel Celeron</td>
<td>2.8 GHz Intel Pentium D820</td>
</tr>
<tr>
<td>Memory (RAM)</td>
<td>1 GB DDR2</td>
<td>2 GB DDR2</td>
<td>512 MB DDR2</td>
<td>1 GB DDR2-533</td>
</tr>
<tr>
<td>Graphics card</td>
<td>1 GB</td>
<td>512 MB</td>
<td>256 MB</td>
<td>512 MB</td>
</tr>
<tr>
<td>Hard disk drive</td>
<td>300 GB</td>
<td>250 GB</td>
<td>160 GB</td>
<td>200 GB</td>
</tr>
<tr>
<td>Internet connection</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Optical drive(s)</td>
<td>DVD-RW</td>
<td>DVD-RW</td>
<td>DVD-ROM</td>
<td>DVD-ROM</td>
</tr>
<tr>
<td>Monitor</td>
<td>19” LCD</td>
<td>17” LCD</td>
<td>19” Flat CRT</td>
<td>17” Flat CRT</td>
</tr>
<tr>
<td>Audio</td>
<td>Integrated 5.1</td>
<td>Creative Sound Blaster X-Fi XtremeMusic</td>
<td>6 channel sound</td>
<td>Integrated HD</td>
</tr>
<tr>
<td>Network connection</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Extras</td>
<td>Multiformat card reader</td>
<td>Multiformat card reader TV tuner card</td>
<td>Colour printer</td>
<td>Nil</td>
</tr>
</tbody>
</table>

Which system would you recommend for a person with low level computer skills, who wants to research their family tree on the Internet from home?
A. System 1
B. System 2
C. System 3
D. System 4

Question 7
Paige created a new ‘Overdue Notice’ template for the accounts department.
Which of the following is the best solution to distribute the template and protect it from alteration or deletion?
A. store a copy in a read only folder on her PC and install it on all the accounts department PCs
B. wait until the next scheduled backup is complete and then email it to all the people who will use it
C. create a backup master copy on her hard drive, then make the template read only and install it in a folder that all the accounts department PCs can access
D. she cannot achieve both objectives – once it is distributed, users can alter or delete it
Question 8
The main purposes for user documentation in a large organisation are to provide
A. technical specifications, understanding of what the software can do, network installation requirements.
B. understanding of what the software can do, training for skills development, a quick reference guide.
C. understanding of what the software can do, training for skills development, network installation requirements.
D. training for skills development, technical specifications, a quick reference guide, understanding of what the software can do.

Question 9
Kevin is the editor for a team of writers who produce training manuals. He needs to keep a record of the modifications he makes when he edits the documents produced by his writing team.
Which one of the following advanced features would best suit his needs?
A. tracking
B. AutoText
C. comments
D. strikethrough

Question 10
You receive a Help Desk call from Ellie. She is trying to scan an image and her PC has been displaying the message ‘Waiting for the lamp to warm up’ for over five minutes. This also happened yesterday and the problem is now urgent.
Which one of the following actions should you take?
A. send a technician to check and replace the scanner lamp if necessary
B. send a technician to check that the mains voltage is not too low
C. advise her to close the application, reboot the system and try again
D. describe to her how to access the system resources display, so you can find out whether her PC is overloaded

Question 11
When setting up a fresh operating system for a computer, which one of the following sections would not be considered part of the security setup for the computer?
A. regional zone
B. firewall configuration
C. network configuration
D. administrator’s password

Question 12
One stage in the production of user documentation is to submit the documentation to a higher authority for approval.
This stage is referred to as
A. testing and evaluation.
B. endorsement or sign-off.
C. product design and development.
D. obtaining feedback from intended users.
Question 13
A Help Desk operator is unsure of how to solve a problem for a client. Which one of the following is the best way to respond to the client?
A. ‘I am sorry, your problem has a low priority.’
B. ‘I need to do some initial troubleshooting. I will call back within the hour.’
C. ‘I am not sure what to do as we are extremely busy. Can you call back within a few days?’
D. ‘I have absolutely no idea! I need to consult my boss first. Please give me a call tomorrow.’

Question 14
The introduction of new technology into a large organisation requires careful consideration. Once the changes to be made are known, a smooth transition from the old to the new technology would be ensured by
A. hiring a consultant.
B. developing an implementation plan.
C. completely removing the old system first.
D. making sure that there will be enough room for the new equipment.

Question 15
You have been asked to recommend a vendor to provide a new open source operating system. Your client’s staff have little or no experience with the proposed new operating system. A comparison of the suppliers is in the table below.

<table>
<thead>
<tr>
<th>Local dealer</th>
<th>Franchisee</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply and install customised image, disks, licence</td>
<td>Supply disks and site licence</td>
<td>Downloadable ISO standard image and site licence</td>
</tr>
<tr>
<td>Phone support</td>
<td>Online troubleshooting database</td>
<td>Online forum support service</td>
</tr>
<tr>
<td>Maintenance contract</td>
<td>Interactive training DVD</td>
<td>Free website hosting</td>
</tr>
<tr>
<td>Onsite training</td>
<td>ISP starter bundle</td>
<td>Training movies</td>
</tr>
<tr>
<td>$139</td>
<td>$119</td>
<td>$109</td>
</tr>
</tbody>
</table>

Which deal provides the best support for the client?
A. Website, as it is the cheapest
B. Franchisee, as it has a training DVD
C. Local dealer because of its phone support
D. Local dealer because of the onsite training and the maintenance contract

Question 16
Cynthia wants to create 60 address labels for a catalogue mail-out that is to be posted in the next hour. The mail merge document was set up by the previous person who did her job and Cynthia is having some difficulty with it.
The most appropriate support resource that Cynthia could access for help with this problem would be the
A. technical manuals for the mail merge software.
B. website for the company that sells the mail merge software.
C. online help facility that is built into the mail merge software.
D. seven-year-old introductory training manuals on the shelf in her office.
**Question 17**
When developing software applications, programmers frequently include comments to clarify the function of sections of code and to make program maintenance easier.
These comments are an example of
A. hyperlinks.
B. pseudocode.
C. internal coding.
D. internal documentation.

**Question 18**
Greenback Travel requires cheap online software that will allow its travel writers to write anywhere, anytime and sometimes collaboratively by exchanging files. They have investigated three online suites of Office compatible applications, which run inside a web browser.

<table>
<thead>
<tr>
<th></th>
<th>Alpha</th>
<th>Betel</th>
<th>Carta</th>
</tr>
</thead>
<tbody>
<tr>
<td>Word processing*</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Spreadsheet*</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Presentation*</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Email</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calendar</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Project management</td>
<td></td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>Compatibility (MS Office, OpenOffice, StarOffice)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Storage</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Upload/download</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Track changes</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Chat</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Browser type</td>
<td>All</td>
<td>All</td>
<td>All</td>
</tr>
<tr>
<td>Requires Java installed</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cost</td>
<td>$50</td>
<td>Free</td>
<td>Donation</td>
</tr>
</tbody>
</table>

*basic formatting such as paragraph, font, size, colour, indentation

Which one of the following is the best for Greenback Travel to use?
A. Alpha, as it allows for file transfer between travel writers
B. Betel, as it is free and uses Java
C. Carta, as it has a project management feature
D. Betel or Carta, as they are the cheaper alternatives
Question 19
Bonny BabyWare retails baby-related products. The database of its clients includes each parent’s name and address, the baby’s name and date of birth, and whether it is a girl or a boy. Every month Bonny BabyWare sends each new parent a personalised letter offering nine special deals, plus another deal for a boy or a girl, as appropriate.

The best way to personalise this mail would be to

A. create two word processor templates and cut and paste the appropriate details into each.
B. create a starting document and use a conditional mail merge to insert the appropriate girl or boy text.
C. create a database macro to extract each name from the database and merge it with the appropriate text.
D. create a word processor macro to extract each name from the database and merge it with the appropriate text.

Question 20
Your Help Desk receives the following calls in quick succession.

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Fault</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 8.12 am</td>
<td>Reception</td>
<td>Screen will not display</td>
<td>Must look up telephone extensions manually</td>
</tr>
<tr>
<td>2 8.13 am</td>
<td>CEO’s assistant</td>
<td>CEO cannot login</td>
<td>Needs to access a file for a meeting in 20 minutes</td>
</tr>
<tr>
<td>3 8.14 am</td>
<td>Warehouse</td>
<td>Laser printer will not print</td>
<td>Cannot print today’s delivery dockets</td>
</tr>
<tr>
<td>4 8.15 am</td>
<td>Accounts office</td>
<td>Unusual error message</td>
<td>Cannot print client account statements</td>
</tr>
</tbody>
</table>

There are two equally qualified staff, Jessica and Nathaniel, who can deal with these problems. How should the work be assigned and in what priority order?

A. They should work together on the problems in the order received.
B. Nathaniel should work on problem 2. Jessica should work on problem 1, followed by problems 3 and 4.
C. It does not matter who does what. They should work independently on problems 2 and 3, followed by problems 4 and 1.
D. They should work together to solve problem 3, then one of them should work on problem 4 and the other work on problems 1 and 2, in that order.
SECTION B – Short answer questions

**Instructions for Section B**

Answer all questions in the spaces provided.

**Question 1**
Your company’s accounts department regularly uses several macros in its spreadsheets. Give one way you could make the macros easy to access.

1 mark

**Question 2**
A friend has purchased a new computer that has a dual boot system installed.

a. Explain the term ‘dual boot system’.

b. Give one advantage of a dual boot system.

1 + 1 = 2 marks

**Question 3**
For each of the following computer-based processes, identify whether it is a batch, real time or multitasking operation. (Tick only one box per process.)

<table>
<thead>
<tr>
<th>Computer process</th>
<th>Batch</th>
<th>Real time</th>
<th>Multitasking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processing the weekly payroll</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Servicing page requests to a busy website</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monitoring the building’s security system</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3 marks
Question 4
A supermarket is trialling a self-service barcode scanner where the customers can scan in and pay for their goods. The supermarket has asked customers for feedback on the system. This feedback includes the performance of staff who give customer support.

a. Suggest one reason why the supermarket would ask customers for feedback.

b. Give one way in which the supermarket could ask customers for feedback.

c. The supermarket has decided to publish customer feedback statistics on its website. Give one reason for this action.

1 + 1 + 1 = 3 marks

Question 5
Below is a list of some common types of user and technical documentation. Tick the appropriate boxes to indicate which would be classified as technical documentation.

- installation procedures manual
- quick reference card
- training manual
- hierarchy chart
- maintenance history logbook
- data dictionary
- online tutorial
- context sensitive help

3 marks

Question 6
You are using a customised software package at work one evening to complete an urgent task. Your Help Desk has closed for the day. The software package unexpectedly stops with an error message you do not understand. Describe one action that you could take to resolve the problem.

1 mark
Question 7
John has four large files in a folder. He wants to compress them before emailing them to a client. After he runs the compression program, the compressed file is larger than the total size of the four files. Explain how this could have happened.

Question 8
The following text was approved for publication in your organisation’s internal staff policy documentation.
‘The Internet can be accessed from all company computers. If you need help using the Internet, contact the Help Desk. Your manager can authorise individual after-hours training on request.’
The first draft was returned from the desktop publishing division looking like this.

The Internet can be accessed from all company computers. If you need help using the Internet, contact the Help Desk. Your manager can authorise individual after-hours training on request.

a. Why should the first draft be rejected?

The second draft is shown below.

The Internet can be accessed from all company computers. If you need help using the Internet, contact the Help Desk. Your manager can authorise individual after-hours training on request.

b. Why should the second draft also be rejected?

1 + 1 = 2 marks
Question 9
Brian is a cartoonist who works from home. He draws cartoons, uses a scanner to digitise them, and emails them to several newspapers. Brian often has to digitally clean up images using photo-editing software before sending them. His scanner is at least five years old.

a. If Brian does not want to buy a new scanner, what could he buy instead?

b. How might a new scanner be better than his old one?

1 + 1 = 2 marks

Question 10
When transferring data from one application to another, it is often necessary to convert the source data into a compatible format so that it will be accepted by the destination application.

a. Name a common format for text transfer.

b. Name a common cross platform open file format for documents.

c. Explain what ‘cross platform’ means when it refers to data transfer.

1 + 1 + 1 = 3 marks
**Question 11**

Staff at a multimedia sales store currently use a shared application to book resources for demonstrations to prospective clients. Below is a copy of the table layout.

<table>
<thead>
<tr>
<th></th>
<th>Borrower</th>
<th>Date</th>
<th>Time</th>
<th>Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

However, the users have had problems accessing the file when one person has it open. Some people have complained that their bookings have been deleted and replaced by those of another user. It has been reported that the current system for data entry is frustrating and time consuming to complete. The sales manager would like a summary report of the products that are being demonstrated and the people who are giving the demonstrations. You have been asked to investigate an alternative solution that will address these issues.

a. The proposed booking system has a built-in calendar and a facility to add the details of each equipment item available, as well as the names of the borrowers. Give two advantages of these features.

1. 

2. 

b. Identify two additional features that the new program must have.

1. 

2. 

2 + 2 = 4 marks

**Question 12**

A new version of the operating system (OS) your organisation uses will be released soon.

a. Before considering the upgrade, give two considerations that would need to be addressed.

1. 

2. 

b. You discover that the new OS backup system uses a different format to the current backup system. Describe two strategies you could use to overcome this problem.

1. 

2. 

2 + 2 = 4 marks
Question 13

You wish to purchase a new operating system. The supplier has provided the following system information.

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Minimum</th>
<th>Recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>1.0 GHz</td>
<td>3.2 GHz</td>
</tr>
<tr>
<td>HDD space used during setup</td>
<td>32 GB</td>
<td>45 GB</td>
</tr>
<tr>
<td>HDD space in use after setup</td>
<td>11.2 GB</td>
<td>20 GB</td>
</tr>
<tr>
<td>RAM</td>
<td>512 MB</td>
<td>1 GB</td>
</tr>
<tr>
<td>Optical drive</td>
<td>48 × CD drive</td>
<td>2 × DVD drive</td>
</tr>
<tr>
<td>Audio hardware</td>
<td>Stereo sound capable</td>
<td>7.1 sound capable</td>
</tr>
<tr>
<td>Video hardware</td>
<td>Capable of OpenGL</td>
<td>Capable of OpenGL</td>
</tr>
<tr>
<td>Internet connection</td>
<td>Dialup</td>
<td>Broadband</td>
</tr>
</tbody>
</table>

a. If a basic user purchases a computer with the **minimum** system requirements, what tasks will they typically use it for?

b. If an intermediate user purchases a computer with the **recommended** system requirements, what tasks will they typically use it for?

1 + 1 = 2 marks

Question 14

Sarah runs a business which creates life-size baby dolls. The business is online and she also accepts phone and mail orders. Sarah makes the dolls’ faces to her clients’ specifications and uses a number of different items for the rest of the doll. There are several different skin colours, hand and arm styles, foot and leg styles, male and female bodies, and a range of clothes. Not all combinations of these parts will fit together.

a. Give two features that Sarah could use (on both her web page and the spreadsheet she uses to process mail and phone orders) to ensure that the order is complete and the parts chosen are compatible.

1. 

2. 

b. When an online client chooses an invalid combination of parts, what can Sarah do to solve this?

2 + 1 = 3 marks
**Question 15**

Tuckers Limited provides commercial catering equipment to hotels, restaurants and fast-food outlets. Tuckers has ten sales staff and it wants to train them all in the latest spreadsheet, word processing and presentation software. All sales staff have new laptops and most have some basic computer skills. Tuckers can only afford to have half its sales staff out of the office at once.

There are **three** options available to Tuckers.

1. Call in a consultant to create a course and run it in-house.
2. Send the sales staff to an off-site commercial training course.
3. Send two of the sales staff to a short course and get them to mentor the others.

- The off-site training takes seven working days and costs $700 per participant.
- The average salary of its sales staff is $400 per day.
- The consultant will charge $2000 to personalise the course for Tuckers. It will run for three days, at a total cost of $1200 per day (maximum of five people). The consultant guarantees that Tuckers’ staff will know as much, or more, than they would have learnt at the commercial course.

a. **Tick the option you would recommend.**
   - [ ] in-house course with a consultant
   - [ ] off-site commercial training course
   - [ ] short course for some staff who then mentor others

b. **Give three reasons for your recommendation.**

1. ______________________________________________________
2. ______________________________________________________
3. ______________________________________________________

1 + 3 = 4 marks
**Question 16**

Cherry Hill Dental Practice has an electronic record-keeping system to manage its patients’ data efficiently. The current system operates as follows.

<table>
<thead>
<tr>
<th>Process 1</th>
<th>When a patient requests an appointment the receptionist checks the appointments file for a free time slot and then confirms the date and time of the appointment with the patient. A record of the booking is sent to the <strong>appointments</strong> file.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process 2</td>
<td>A new patient submits their contact details on a form, which is entered into the <strong>patient's</strong> file. The patient is posted an information brochure on the practice.</td>
</tr>
<tr>
<td>Process 3</td>
<td>A patient pays their account on the day of the appointment and is given a receipt. A record of payment made is sent to the <strong>patient's</strong> file.</td>
</tr>
</tbody>
</table>

The practice is documenting its record-keeping system.

An Input Processing Output (IPO) chart is a common form of technical documentation. The IPO for Process 1 is shown below.

```
<table>
<thead>
<tr>
<th>Input</th>
<th>Processing</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>• appointment request</td>
<td>• check appointments file  • update appointments file</td>
<td>• appointment confirmation</td>
</tr>
</tbody>
</table>
```

a. Complete the IPO charts for Process 2 and Process 3.

**Process 2**

```
<table>
<thead>
<tr>
<th>Input</th>
<th>Processing</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• update patient’s file</td>
<td>• information brochure</td>
</tr>
</tbody>
</table>
```

**Process 3**

```
<table>
<thead>
<tr>
<th>Input</th>
<th>Processing</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>• payment</td>
<td>• process payment</td>
<td></td>
</tr>
</tbody>
</table>
```

b. Name another type of technical documentation that the practice could use to document its information system.

c. Suggest a type of user documentation that would help the dentists at the practice make better use of the system.

3 + 1 + 1 = 5 marks
### Question 17

Below is some macro code in Visual Basic for Applications (VBA) from a word-processing application. The code was recorded using the macro recorder tool in the software.

```vba
Sub MyFormat()
  ' MyFormat Macro
  ' Macro recorded 13/09/2007 by Administrator
  Selection.WholeStory
  Selection.Font.Name = "Arial"
  Selection.Font.Size = 11
  Selection.ParagraphFormat.Alignment = wdAlignParagraphJustify
  ActiveDocument.PageSetup.Orientation = wdOrientLandscape
  ActiveWindow.ActivePane.View.Zoom.PageFit = wdPageFitFullPage
End Sub
```

a. Briefly explain what each of the following lines of code in the macro do when the macro is run or executed.

<table>
<thead>
<tr>
<th>Line number</th>
<th>Explanation for code</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Selection.WholeStory</td>
</tr>
<tr>
<td>7</td>
<td>Selection.Font.Name = &quot;Arial&quot;</td>
</tr>
<tr>
<td>10</td>
<td>ActiveDocument.PageSetup.Orientation = wdOrientLandscape</td>
</tr>
</tbody>
</table>

b. If you wanted to edit the macro so that the selected text is centred when the macro is run, which line would you change and what would you change it to?

```
Line number ______________
Rewritten code ______________
```

c. Suggest another advanced word-processing feature that could be used to achieve similar results to the macro above.

```
3 + 2 + 1 = 6 marks
Total 50 marks
```
The Victorian Jaguars is a basketball club with four hundred players and five thousand members. It has teams in male and female, and junior, senior and league competitions.

The club has its own administration office, managed by Lucas, in a sporting complex that it shares with other clubs and sports. Elias is the manager of the Recruitment, Renewal and Revenue (RRR) department, which does not have enough space in the current office. When the RRR department succeeds in increasing membership, the club will move to a larger stadium with bigger offices, new PCs and more rooms.

The club has a cabled network with workstations in all offices, as well as the medical department. The medical department consists of Rina, the physiotherapist, and Ryan, the medical officer. The network extends to PCs in the basketball stadium for Andy, the announcer, Samuel at the scorers’ desk, and Thomas, the television commentator.

The club has several databases that store information about
- player statistics
- player medical history
- members
- merchandise
- game statistics.

The club also hosts its own website, which contains game schedules, past results, player profiles and the club’s online newsletter. Elias plans to sell memberships, tickets and merchandise through the website. He does not plan to have any ‘real-time’ information, such as scores from games in progress, on the website.

Previously, a number of friends and relations provided the club’s computing needs, but this arrangement was not always satisfactory. Lucas has just appointed you as the new IT consultant to improve the information system.

**Question 1**
The RRR department asks you to help develop a macro for recording data from phone membership sales.
Suggest **one** way in which a new macro could help the department.

---

1 mark
Question 2
After the public or members purchase tickets (either online, by phone or by mail), the club posts them, with an invoice or bill, to the purchaser. To do this Elias wants a new word-processing template.
Draw a design for an invoice template in the box below.

2 marks

Question 3
You have created a new disaster recovery plan for the Jaguars and plan to test it before the club moves to the new offices.

a. Why is it important to test the new disaster recovery plan?

b. Explain why having the new disaster recovery plan will help when the club moves.

1 + 1 = 2 marks
Question 4
You need to connect the PCs in the expanded RRR department to the network. You are considering two options.

- Option 1: installing cable to the new room, which is 30 metres away on a different floor of the building.
- Option 2: adding a wireless network until you move to the new offices.

Choose one of the options above by ticking the box next to it.

a. Give one advantage of your chosen option.

b. Give one disadvantage of your chosen option.

1 + 1 = 2 marks

Question 5
Currently everyone can access all databases on the Jaguars’ network. You have decided to set up a number of groups. Some of the groups are

- Group 1: Lucas
- Group 2: Elias
- Group 3: Rina and Ryan
- Group 4: Samuel

Write the appropriate Group number (1 to 4, using each once only, thus leaving two boxes blank) in the Group number column of the following table to show the appropriate access privileges.

<table>
<thead>
<tr>
<th>Database access</th>
<th>Group number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Merchandise</td>
<td>Membership</td>
</tr>
<tr>
<td>read only</td>
<td>read only</td>
</tr>
<tr>
<td>read only</td>
<td>read only</td>
</tr>
<tr>
<td>read/write</td>
<td>read/write</td>
</tr>
<tr>
<td>read/write</td>
<td>read/write</td>
</tr>
<tr>
<td>read only</td>
<td>read only</td>
</tr>
<tr>
<td>read/write</td>
<td>read/write</td>
</tr>
</tbody>
</table>

4 marks
Question 6
Lucas is worried that putting the club’s shop on the Internet could reduce the security of members’ details and players’ medical histories.

a. Suggest two ways you could maintain the required security.

1. 

2. 

Some of the online sales system existed before your appointment. When you run some trials, you discover that the GST (10% of invoice total) calculation is incorrect.

This is part of the pseudocode for the invoicing macro.

```plaintext
1   Title   Produce Invoice
2   shipping_cost = 0
3   invoice_total = 0
4   gst_multiplier = 0.1

10  OUTPUT invoice header

20  REPEAT
21         GET next order line
22         line_total = line_value * line_quantity
23         line_total = line_total * gst_multiplier
24         invoice_total = invoice_total + line_total
25         LOOKUP shipping_value
26         shipping_cost = shipping_cost + (shipping_value * gst_multiplier)
27         invoice_total = invoice_total + shipping_cost
28         OUTPUT order line
29  UNTIL no further order lines

40  gst_included = invoice_total * (gst_multiplier - 1) / gst_multiplier
41  OUTPUT invoice totals

b. Which line of code is incorrect, and what should it be?

Line number __________

Correct code ____________________________

2 + 2 = 4 marks
Question 7
The Jaguars’ system has a folder structure, partly shown in the figure below.

![Folder Structure Diagram]

You have developed a number of templates for the RRR department to assist in membership and merchandise sales.

a. On the diagram above
   i. mark with an ‘X’ the folder(s) where you would store merchandise templates.
   ii. mark with an ‘O’ the folder(s) where you would store membership templates.

b. What else do you need to do before installing these templates?

_________________________________________________________________________

Next week Wen-Ee will join the RRR department. She will initially work on membership.

c. How should she be familiarised with the appropriate templates?

_________________________________________________________________________

Two weeks after Wen-Ee started using the templates she requested some changes.

d. What is the first step you should take?

_________________________________________________________________________

(1 + 1) + 1 + 1 + 1 = 5 marks

Total 20 marks

END OF QUESTION AND ANSWER BOOK