



**Victorian Certificate of Education  
2002**

SUPERVISOR TO ATTACH PROCESSING LABEL HERE

**STUDENT NUMBER**

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**VCE VET INFORMATION TECHNOLOGY  
(General)**

**Written examination**

**Friday 1 November 2002**

**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**

<i>Section</i>	<i>Number of questions</i>	<i>Number of questions to be answered</i>	<i>Number of marks</i>
A	20	20	20
B	18	18	52
C	7	7	20
		<b>Total</b>	<b>92</b>

- 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 18 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 electronic communication devices into the examination room.**

**SECTION A – Multiple-choice questions****Instructions for Section A**

Answer all questions in pencil on the answer sheet for multiple-choice questions. A correct answer scores 1, an incorrect answer scores 0. Marks will **not** be deducted for incorrect answers. No mark will be given if more than one answer is completed for any question.

**Question 1**

Amardeep has a small financial advisory business. He is mainly concerned with the effect of changing interest rates on clients' investments. He wishes to use a package that will allow him to manipulate figures and predict future returns on investment.

He would be best advised to use a

- A. database package.
- B. publishing package.
- C. spreadsheet package.
- D. word processing package.

**Question 2**

For a birthday present, Tyler received a CD-ROM game. The table below outlines the PC system requirements to run the CD-ROM game and provides specifications for Tyler's existing personal computer.

PC minimum requirements	Tyler's PC specifications
<ul style="list-style-type: none"> <li>• Pentium 120 MHz</li> <li>• 32 MB RAM</li> <li>• VGA monitor</li> <li>• Double CD-ROM speed</li> </ul>	<ul style="list-style-type: none"> <li>• Pentium 133 MHz</li> <li>• 16 MB RAM</li> <li>• SVGA monitor</li> <li>• Quad CD-ROM speed</li> </ul>

What upgrade does Tyler need to make to his PC to successfully run the CD-ROM game?

- A. RAM
- B. CPU
- C. screen display
- D. CD-ROM speed

**Question 3**

The ability of the monitor to operate at various display standards depends on

- A. the video card.
- B. the sound card.
- C. the network card.
- D. the memory card.

**Question 4**

While on duty at 8.00 am as the Help Desk operator for Allcomp, you receive the following three calls for support in quick succession.

Call 1 – The training coordinator needs to urgently download photos from a digital camera, for a training manual due for printing next week, but does not know how to download them.

Call 2 – A secretary cannot access email. She needs to send a message to all employees about the Christmas function to be held in three months time.

Call 3 – The inventory clerk needs to print out invoices that need to be sent to clients by the end of the day. The printer seems to be jammed with paper.

The three calls should be prioritised from highest to lowest in the order

- A. call 2, call 1, call 3
- B. call 2, call 3, call 1
- C. call 3, call 2, call 1
- D. call 3, call 1, call 2

**Question 5**

You are a Help Desk operator. A client has rung the Help Desk for assistance.

Which **three** essential pieces of information do you need from the client in order to log the call?

- A. problem, name of client, date logged
- B. name of client, problem, phone contact
- C. date logged, name of client, advice offered
- D. name of client, name of Help Desk operator, problem

**Question 6**

A medical centre has installed a new software system to keep track of the immunisation schedules for their child patients. The software system is supposed to send out letters when immunisations are both due and overdue. However, the software system keeps printing out letters to patients who are up-to-date with their immunisations. The medical receptionist has contacted you, the Help Desk operator.

The **best** explanation of the possible problem that you could give is

- A. the software has a virus and needs to be debugged.
- B. the operating system has not been configured to handle the software.
- C. the printer software has been installed incorrectly. You need to reinstall it.
- D. the software needs to be tested in accordance with the organisational requirements.

**Question 7**

An equipment register should **not** contain

- A. an ID number.
- B. a product (code) number.
- C. an asset register number.
- D. a workstation serial number.

**Question 8**

What does an instructional manual **best** describe?

- A. the maintenance of a system
- B. the organisational rules and guidelines
- C. the information for the user on how to use the system
- D. the construction of the hardware and software that runs a system

**Question 9**

The testing stage for developing computer system documentation involves

- A. creating the documentation, whether printed or online.
- B. checking the document for content, accuracy and grammar.
- C. identifying all the pieces of documentation and how they are related.
- D. trying out the documentation and providing feedback on areas that need improvement.

**Question 10**

Which evaluation criterion would be **best** suited to test the **accuracy** of online documentation?

- A. clarity of purpose
- B. ease of use
- C. degree of interactivity
- D. use of graphics

**Question 11**

You have opened a file on the command line using a basic editor such as Notepad. You are able to edit this file and save the changes.

This file will be a

- A. text file.
- B. binary file.
- C. spreadsheet file.
- D. word processing file.

**Question 12**

File fragmentation will

- A. increase the efficiency of disk caching.
- B. improve poor performance of the drive.
- C. allow the system to minimise disk usage.
- D. cause applications to take longer to load.

**Question 13**

Toula's workplace has recently upgraded its computers to the latest Pentium PCs. Toula has gone into the directory structure and cannot find her document files.

A probable reason for this is

- A. her screen resolution is faulty.
- B. her upgrade cannot read her current files.
- C. her files were not backed up and restored.
- D. the RAM on her upgrade is not sufficient to run her applications.

**Question 14**

On a particular laptop, careless management of system resources has led to poor performance. Applications need to be closed down before other applications can be used.

The performance status, for the usage of system resources, should be

- A. at 50% free.
- B. at 100% free.
- C. below 50% free.
- D. above 50% free.

**Question 15**

The template for Mail Merge letters is stored as

- A. a database file.
- B. an executable file.
- C. a spreadsheet file.
- D. a word processing file.

**Question 16**

Which of the following **best** describes the use of a database package?

- A. an expert system
- B. a decision support system
- C. a transaction processing system
- D. a management information system

**Question 17**

A data flow diagram may be used in documentation for

- A. maintaining the design of system software.
- B. updating the RAM capabilities of a system.
- C. maintaining the peripheral devices of a system.
- D. understanding the layout of the user interfaces.

**Question 18**

A supermarket warehouse business would **best** keep track of its stock levels through

- A. a manual system.
- B. a bar coding system.
- C. a touch screen system.
- D. an Optical Character Reader (OCR).

**Question 19**

A cost that cannot be measured is the cost of

- A. software.
- B. lower staff morale.
- C. increase in maintenance personnel.
- D. lower incidence of sick days taken by staff.

**Question 20**

The Autoexec function refers to

- A. a template to replace the default template.
- B. a template that loads when an application is opened.
- C. a macro that contains instructions to detect viruses.
- D. a macro that runs when an application is opened.

**SECTION B – Short-answer questions****Instructions for Section B**

Answer **all** questions in the spaces provided.

**Question 1**

Where are the details of computer software usually recorded?

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1 mark

**Question 2**

A dialogue box appears on the screen every time a client tries to print. The text ‘Abracadabra’ appears in the box. The machine then has to be reset. From this description, what is the most likely problem?

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1 mark

**Question 3**

a. A computer programmer needs to update her skills to complete a project for her employer. There is a limited time to complete this project. The project is so important that the employer decides to invest a large part of the budget on training the programmer. List **two** advantages of using one-on-one training for this company.

1. \_\_\_\_\_

2. \_\_\_\_\_

b. List **two** reasons why a trainer should ask a trainee to evaluate a training program.

1. \_\_\_\_\_

2. \_\_\_\_\_

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2 + 2 = 4 marks

**Question 4**

a. What is the function of a GUI (Graphical User Interface)?

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b. Name **two** standard navigation tools in a GUI.

1. \_\_\_\_\_

2. \_\_\_\_\_

2 + 2 = 4 marks

**Question 5**

A fairly recent technology is Plug and Play (PnP).

a. What is the purpose of PnP?

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b. Name a PnP device.

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1 + 1 = 2 marks

**Question 6**

List **two** common causes of data loss from a file directory in a client's PC.

1. \_\_\_\_\_

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2. \_\_\_\_\_

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2 marks

**Question 7**

List **two** reasons for documenting a software system.

1. \_\_\_\_\_

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2. \_\_\_\_\_

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2 marks

**Question 8**

List **two** problems that a client could experience as a result of implementing a new software package that will involve changes to current work practices.

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_

2 marks

**Question 9**

Describe **two** of the types of documentation listed below.

- system flow chart
- maintenance history logbook
- user manual

- 1. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 2. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2 + 2 = 4 marks



**Question 10**

What is the difference between a local macro and a global macro?

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2 marks

**Question 11**

List **three** business issues that need to be explored when considering the introduction of new technology.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

3 marks

**Question 12**

Fly By Night is a small business that supplies skilled labourers to companies. It employs twenty people from many cultural backgrounds. All employees have access to their own PC and the PCs have been recently networked into a small LAN. The receptionist is the only employee confident with her computer skills.

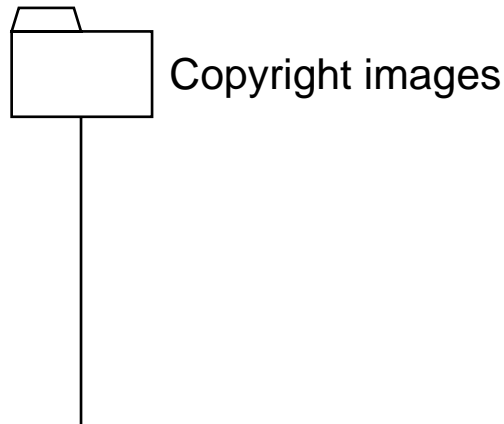
You have set up email accounts for all the employees and have been asked to create user documentation to assist the users with the email technology. List **two** employee differences that need to be considered when creating user documentation for Fly By Night.

1. \_\_\_\_\_
2. \_\_\_\_\_

2 marks

**Question 13**

The IT Manager of a publishing company has set up a directory for copyright images, with subdirectories for scanned, digital and web images. The publishing company has a policy document called 'Use of Copyright Images'. This document is stored at the root of the copyright images directory. Complete the directory structure diagram.



2 marks

**Question 14**

Name **two** multi-user operating systems that would be used in a client-server environment.

1. \_\_\_\_\_
2. \_\_\_\_\_

2 marks

**Question 15**

Planning, testing and distributing are some stages of the standard documentation process for developing computer system documentation. List **three** other stages that make up this process.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

3 marks

**Question 16**

Messages 4 U is a small business that allows clients to record a message using a digital video camera. The message is then downloaded on to a PC as a file into a message directory. This file can then be burned onto a writable CD-ROM for the use of the client.

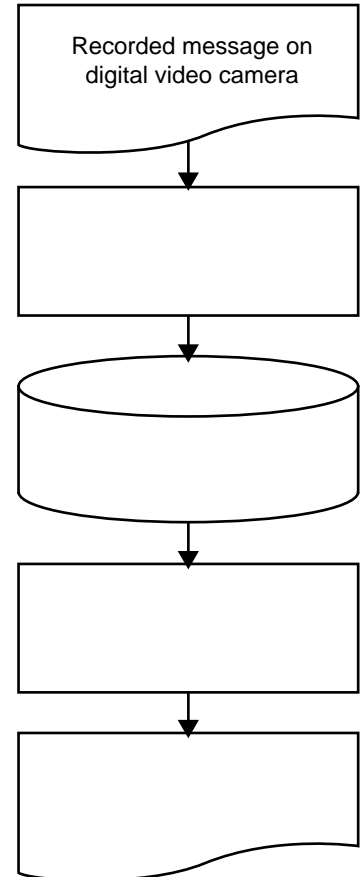
a. Apart from the PC and digital video camera, what other hardware is needed for this business?

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b. Complete the simple system flow chart of the Messages 4 U computer system by writing in the labels for the blank symbols.

Select from the following labels:

- Copy message to CD-ROM
- Message file on PC
- Download message from digital video camera
- CD-ROM message



c. What are the **three** main hardware system requirements that must be taken into account in the selection of a PC that can be used at Messages 4 U?

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d. What is a USB port?

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**Question 17**

Munchie Food Catering supplies and prepares food for several airline companies. The company depends on a networked computing system linking each of the company operations. One of the computers has been designated as the server, which has a tape backup drive. A simple system backup schedule for the business is as follows:

- A complete backup of the entire hard drive of the main computer system is made each week on a Wednesday night. A copy of this backup tape is produced and stored offsite.
- Partial backups are taken on the other nights, at the end of each day.

a. What type of backup system is being used?

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b. Why is only new or modified data backed up every day?

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c. How could a file be recovered if a file created on Monday became corrupted on Thursday?

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d. How could a file be recovered if a file created on Tuesday was accidentally deleted on the same day?

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e. Why is a second copy of the entire data made each week and stored offsite?

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f. If the tape backup drive failed to work, suggest an alternative way the company could back up their system.

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1 + 1 + 1 + 1 + 1 + 1 = 6 marks

**Question 18**

A database with the following two tables, Customer and Order, is given below.

Customer table			Order table		
Field name	Type	Length	Field name	Type	Length
fldFName	alphanumeric	30	fldOrderID	numeric	integer
fldLName	alphanumeric	30	fldOrdCustID	alphanumeric	5
fldCustomerID	alphanumeric	5	fldOrderDate	date	
fldCustAddress	alphanumeric	40			
fldCustSuburb	alphanumeric	30			
fldPostcode	alphanumeric	4			

- a. Identify a suitable primary key for the customer table and give the reason for your choice.

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- b. Identify a suitable foreign key to reference the customer table and give the reason for your choice.

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2 + 2 = 4 marks

**SECTION C – Case study****Instructions for Section C**

Read the case study below and answer the following questions in the spaces provided.

BlastOff Publishing is a company that publishes a popular magazine for children. The company has only been established for five years and is already capturing the market sales for this age group. It is a growing company and has started to diversify by offering the magazine online. The magazine is published monthly. The company operates under a thirty PC network. All PCs and portable notebook computers have network connectivity.

Jo is the network administrator who also assists the network technician.

Dora works in the Marketing Department. Her role is to sell magazine space to customers who would like to advertise their products. Part of the budget for the magazine publication depends on Dora having sold twenty advertisement spaces to her client base. Dora uses a presentation software package to promote the magazine to her client base. This presentation file is kept on her portable notebook computer.

Stefan is a graphic artist, his role is to design the web page for BlastOff Publishing. During the day, Stefan downloads many images from the Internet and creates his own animations for BlastOff Publishing. He often complains that the download time from the network is very slow.

Meg is the magazine editor. She uses a word processing package to write her monthly editorial. She also is involved in the layout of the magazine.

Ed is the coordinator of membership subscriptions. Children can become a member in three ways: by filling out the membership form from the magazine and sending it to BlastOff, by emailing their details to Ed at a given email address or by subscribing online. Ed enters the details of the members on a database and acknowledges their membership through a word processing correspondence. Children can only access the online magazine when they become a member.

**Question 1**

What advantage would a desktop publishing package have over a word processing package, in creating a template for a magazine?

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1 mark

**Question 2**

Why would BlastOff Publishing need a disaster recovery plan?

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2 marks

**Question 3**

Stefan has experienced that the network can be slow to send and download information. Give **two** suggestions to improve the efficiency and performance of the network.

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2 marks

**Question 4**

- a. Dora is on holiday leave. An assistant has been given Dora’s work. The assistant has found illegal copies of software downloaded onto Dora’s notebook computer. How could this jeopardise the network?

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- b. System integrity and security is a big issue at BlastOff Publishing. List **three** diagnostic tests that could be used to check the network security.

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1 + 3 = 4 marks



**Question 5**

- a. Describe **three** different types of macros that could be developed to assist the staff at BlastOff Publishing.

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- b. How would Jo monitor the changes that have been made to a macro or template?

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3 + 1 = 4 marks

**Question 6**

- List **two** benefits for Meg, if she used a template to write her monthly editorial.

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2 marks

**Question 7**

Ed needs to redesign the membership form that appears in the magazine.

- a. Outline what type of software package you would use and the essential information needed for a membership form.

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- b. Design a new membership form template that can be used on the web and in the magazine.

Submit Button [for web application]

2 + 3 = 5 marks