



Coimisiún na Scrúduithe Stáit State Examinations Commission

Leaving Certificate Applied 2007

Vocational Specialism – Information and Communication Technology

Practical Performance and Written Test
(400 marks)

Wednesday, 23 May 2007
Morning 10:00 to 12:00

for the superintendent only

Centre Stamp

General Directions

1. Write your examination number in this space.
2. Write your answers into this answerbook.
3. Be sure to return all of your printouts with this answerbook.

--

There are three sections in this examination:

- Section 1: **General Theory**
Section 2: **Word Processing**
Section 3: **Optional Modules**

for the examiner only

1. Running total	
2. Total of extra questions	
3. Total mark (1 minus 2)	

SECTION		MARK
Section 1		
Section 2		
Section 3	Module 2	
	Module 3	
	Module 4	
	Module 5	
	Module 6	
TOTAL		

Section 1 - General Theory

(80 marks)

Answer all 10 questions in the spaces provided.

1. Which **one** of the following is an *external storage device*?

Disk driver	Plotter
VDU	Flash disk

2. List **two** web browsers that can be used to access the Internet.

(a) _____

(b) _____

3. Give **two** ways of connecting to the Internet.

(a) _____

(b) _____

4. What is the command used to change the name of a file?

5. List **two** types of printers.

(a) _____

(b) _____

6. What does each of the following stand for?

(a) PC _____

(b) CD-RW _____

7. Give **two** advantages of a *networked system* over a *stand-alone system*.

(a) _____

(b) _____

8. Name **two** *input devices* that are used to input text.

(a) _____

(b) _____

9. Which **one** of the following is *system software*?

Desktop Publishing	Access 2000
Windows 2000	Office 2000

10. You are buying a printer and see the following advertisement in a newspaper. Explain each of the underlined terms.

<p>Special Offer Printer Prints/Scans/Copies</p> <p>Compatible only with MS Windows XP</p> <p>Prints up to 20 A4 <u>ppm</u></p> <p>Scan resolution 19200 <u>dpi</u></p>

(a) ppm _____

(b) dpi _____

Section 2 - Module 1: Word Processing

(80 marks)

There are two questions in this section of the examination.
Answer both questions.

11. Word Processing Theory

(10 marks)

- (a) List **two** ways of aligning text.

(1) _____

(2) _____

- (b) What menu options are used to put a header on a word processing document?

12. Practical Word Processing Assignment

(70 marks)

You have been given a word processing file on disk called **MP3**.

- (a) Open this file and make the changes shown on page 6.
- (b) Insert your examination number in the position shown on page 6.
- (c) Use today's date as a footer in the document.
- (d) Add the following table to the end of your document, making sure to format it as shown.

Product	Cost (€)	Storage Capacity
iPod Nano	250.00	4 GB
Sony	400.00	20 GB
iRiver	495.00	30 GB

- (e) Spell check the entire document.
- (f) Save the document as **NEWMP3** and print one copy.

Be sure to return the printout with your answerbook.

(Examination Number)

(Digital Audio Players) *Bold, centre, 20 pt*

N.P. A digital audio player (DAP) is a device that stores, organises and plays digital music files. It is also called an MP3 player. The MP3 player is the most recent in an evolution of music formats that have helped consumers enjoy their music. Records, eight-track tapes, cassette tapes and CDs – none of these earlier music formats provided the convenience and control that MP3 players give music lovers. With an MP3 in hand or pocket, a consumer can create personalised music lists and carry thousands of songs wherever they go. **All** of that stored music and the MP3 player itself fit in to a device about the size of a deck of cards.

run on

That's a big difference in size as opposed to carrying a CD player and CD storage case. MP3 players come in many different shapes and sizes as manufacturers try to appeal to wide audiences.

three

There are ~~3~~ main types of digital audio players:

MP3 CD players are devices that play CDs. Often, they can be used to play both audio CDs and homemade data CDs containing MP3 or other digital audio files.

Flash-based players are devices that hold digital audio files on internal or external media, such as memory cards.

numbered

Hard drive based players or digital jukeboxes are devices that read digital audio files from a hard drive. Thousands of songs, perhaps an entire music collection, can be stored in one MP3 player. Due to their capacity and physical size, image and video media are becoming standard among hard drive based players. The Apple iPod and Creative Zen are examples of **popular** digital jukeboxes.

on

delete

* *insert table here*

* *change line spacing to 1.5 throughout the document*

Section 3 - Optional Modules

(240 marks)

There are **five** modules in this section of the examination.
Complete any **three** of these modules.
All modules carry the same number of marks.

Module 2: Spreadsheets

(80 marks)

There are two questions in this module.
Answer both questions.

13. Spreadsheet Theory

(10 marks)

- (a) Examine the spreadsheet below.

	A	B	C	D	E
1	2007 Spring Test Results				
2	Name	Test 1	Test 2	Test 3	Average
3	Tom	20	50	50	<i>Formula</i>
4	Mary	21	44	55	
5	Ger	18	46	57	
6	Ann	21	48	50	

Write a suitable formula for cell **E3** that would calculate Tom's **Average** Test Result.

Formula: _____

- (b) How many rows and columns are in the spreadsheet above.

(1) number of rows: _____

(2) number of columns: _____

14. Practical Spreadsheet Assignment

(70 marks)

- (a) Set up a spreadsheet as shown below.
- (b) Align and format the spreadsheet as shown. Adjust column widths as necessary.

	A	B
1	Electricity Bill Calculator	
2		
3	Present Reading	16601
4	Previous Reading	16266
5		
6	Units Used	
7	Cost per Unit	0.12
8	Cost of Electricity Used	
9	Standing Charge	9.14
10	Sub Total	
11	VAT (13.5%)	
12	Total Due	
13		
14	Examination Number	

- (c) Calculate the **Units Used** by subtracting the **Previous Reading** from the **Present Reading**. This should be displayed in cell B6.
- (d) Calculate the **Cost of Electricity Used** by multiplying the **Units Used** by the **Cost per Unit**. This should be displayed in cell B8.
- (e) Calculate the **Sub Total** by adding the **Cost of Electricity Used** to the **Standing Charge**. This should be displayed in cell B10.
- (f) (1) Enter a formula in cell B11 to calculate the **VAT (13.5%)**. This is done by multiplying the **Sub Total** by 13.5%
- (2) Write the formula you used in cell B11 on this line.
-
- (g) Calculate the **Total Due** by adding the **Sub Total** to the **VAT (13.5%)**.
- (h) Format all cells that contain money amounts to currency with two decimal places. (e.g. €80.00).
- (i) Insert your examination number in cell B14.
- (j) Create a column chart for the cell range A8:B12. Use your examination number as the title of the chart.
- (k) Delete Row 2 in the spreadsheet.
- (l) Save the file as **ESBBILL**.
- (m) Print one copy of both the spreadsheet and the chart.

Be sure to return the printout(s) with your answerbook.

Module 3: Databases

(80 marks)

There are two questions in this module.
Answer both questions.

15. Database Theory

(10 marks)

- (a) Use two of the following terms to complete the definitions below:

Record	Key field	Query
--------	-----------	-------

- (1) A database is sorted using a _____
- (2) A _____ uses criteria to search a database.

- (b) Study the database below. For each **Field Name** write a suitable **Data Type** in the space provided.

Field Name	Data Type
Surname	
Salary	
Date of Birth	

16. Practical Database Assignment

(70 marks)

You have been given a database file on disk called **MOBILE**.

- (a) Open this file.
- (b) Add a new field called **Price** after the Format field. This field should be formatted as currency with two decimal places (e.g. €4.99).
- (c) Add the following data to the **Price** field.

ID	Name	Artist	Released	Format	Price
16	Fireworks	Jamster	11/08/05	Wallpaper	4.99
22	World Hold On	Bob Sinclar	30/09/04	Ring Tone	4.99
43	Sun	DHT	03/01/01	Ring Tone	5.99
72	Pink Panther	Theme	12/05/99	Ring Tone	2.99
79	Garfield	Mobi	12/01/04	Wallpaper	3.99
87	JBC Song	Nizlopi	14/10/05	Wallpaper	2.99
88	Crazy Dog	Jamster	25/09/05	Wallpaper	5.99
90	That's My Goal	Shane Ward	23/05/06	Ring Tone	3.99

- (d) Delete the record with **ID** 79.
- (e) Add the following records to the database.

ID	Name	Artist	Released	Format	Price
13	Love Hearts	DHT	10/03/99	Wallpaper	3.99
14	My Dream	DHT	16/04/06	Wallpaper	4.99

- (f) Amend the record with ID 87, the Name should be JCB Song.
- (g) Sort the database in ascending order according to **Name**.
- (h) Having made the above changes, print the database. Make sure to write your examination number on this printout.
- (i) Select all records with a Wallpaper format. Sort these by **Price** in descending order and print. Make sure to write your examination number on this printout.
- (j) Save this file/query as **WPAPER**.

Be sure to return the two printouts with your answerbook.

Module 4: Desktop Publishing

(80 marks)

There are two questions in this module.
Answer both questions.

17. Desktop Publishing Theory

(10 marks)

- (a) A *letterhead* is one type of publication that can be creating using a Desktop Publishing package. Name **two** other publications that can be created.

(1) _____

(2) _____

- (b) Which one of the following is a file extension for images?

.doc	.jpeg
.xls	.ini

18. Practical Desktop Publishing Assignment

(70 marks)

You have been given a text file on disk called **SALE** and a piece of clipart called **COMPUTER**.

- (a) Use the text and the clipart from your disk to create the document as shown on page 13. The clipart on your disk may not be the same as the clipart shown.
- (b) Insert your examination number in the position shown on page 13.
- (c) Insert the heading **SUMMER SALE** using Arial font (centred, size 36 pt, bold).
- (d) Put a border around the heading **SUMMER SALE** as shown on page 13.
- (e) Insert the clipart. Centre it and resize it to approximately the size shown on page 13.
- (f) Draw two 'explosion' shapes using custom shapes or autosshapes in the positions shown. Add grey shading or a grey background as shown on page 13.
- (g) Insert the text '30% off cartridges' and '50% off software' in two separate text frames as shown on page 13. Format the text as Times New Roman (centred, size 12 pt, bold).
- (h) Insert the following word art/text effect using Cooper Black font (deflate style, size 36 pt).

**Come in
and have
a look!**

- (i) Format all other text to Arial font (centred, size 20 pt) as shown on page 13.
- (j) Bold the heading **Opening Hours** as shown on page 13.
- (k) Save the document as **SALE** and print one copy.

Be sure to return the printout with your answerbook.

(Examination Number)

SUMMER SALE

**ABC Computers Ltd.
Town Centre
Dublin**

**30% off
cartridges**



**50% off
software**

1 week only!

**Come in
and have
a look!**

**Computers
Printers & Scanners
Hard Drives
Huge Selection of Storage Devices**

**Opening Hours
Monday – Saturday
9:00 a.m. – 6:00 p.m.**

Module 5: The Internet

(80 marks)

There are two questions in this module.
Answer both questions.

19. Internet Theory

(10 marks)

- (a) Explain the term *Internet Service Provider*.

Name an *Internet Service Provider*.

- (b) What does each of the following stand for?

(1) WWW _____

(2) HTML _____

20. Practical Internet Assignment

(70 marks)

TASK 1

- (a) Log on to the Internet.
- (b) Open any one of the following sites.
 - www.dunnesstores.com
 - www.tesco.ie
 - www.superquinn.ie
 - www.aldi.ie
- (c) Find a page that gives information on special offers or special buys.
- (d) Save it on your examination disk as OFFERS. Print the first page of offers information. Make sure you write your examination number on the printout.

TASK 2

- (a) Use any search engine to find information on the weather in New Zealand.
- (b) Save it on your examination disk as WEATHER. Print the first page. Make sure you write your examination number on the printout.

TASK 3

- (a) Type the following email to be sent to the address given on form EM1.
- (b) Carbon Copy (CC) the email to your own email address.
- (c) The subject of the email is *Typing speed*.
- (d) The text of the email is:

Ger

I've corrected your speed test and I am pleased to inform you that you have a typing speed of 45 wpm. This is an excellent result.

Signed: (your examination number)

- (e) Send the email.
- (f) Open the email you have sent to yourself and print one copy.

Be sure to return the three printouts with your answerbook.

Module 6: Text Entry

(80 marks)

There are two questions in this module.

Answer both questions.

21. Text Entry Theory

(10 marks)

The following passage has at least 10 errors in it. These include spelling, punctuation and layout errors. Proof-read the document and mark the errors with a pen.

Driving licence

The driver theory test was introduced in Ireland in 2001. Before this, people in Ireland didnt have to under go a test of there nowledge of either the rules of the road or motoring laws in Ireland before they applied for a driving license, or completed their driving test.

EU legislation now requires that citizens undergo a practical test of their knowledge of the rules of the road and motoring legislation.

The theory test will cheque knowledge of areas such as:

- (a) the rules of the road
- (b) risk perception
- (c) hazard awareness
- 4. good driving behaviour

The test is conducted at 41 test locations throughtout the country. The test can be offered in Irish and on English and candidates with special needs are are catered for.

The test is scored automatically and results are made available 2 you immediately You will receive a certificate for your theory test at the test centre.

22. Practical Text Entry Assignment

(70 marks)

TASK 1 Data Entry Test

- (a) Insert your examination number in the position shown.
- (b) Type the following passage in double line spacing.
- (c) Format text as shown below.
- (d) Save it on your examination disk as **VIRUS** and print one copy.

(Examination Number)

Mobile Phone Viruses

The first known mobile phone virus appeared in **2004** and didn't get very far. Cabir A² infected only a small number of Bluetooth-enabled phones and carried out no malicious action. A group of malware developers created Cabir to prove it could be done. Their next step was to send it to **anti-virus researchers**, who began the process of developing a solution to a problem that promises to get a lot worse.

At present mobile phone viruses can't spread very far and they don't do much damage, but the future might see mobile phone viruses that are as damaging as computer viruses. A mobile phone virus is basically the same thing as a computer virus – an unwanted executable file that "infects" a device and then copies itself to other devices.

Phones that can only make and receive calls are not at risk. Only smart-phones with a Bluetooth connection and data capabilities can receive a mobile phone virus. A virus might access and/or delete all of the contact information and calendar entries in the infected phone. *It might send an infected MMS message to every number in your phonebook!*

Be sure to return the printout with your answerbook.

TASK 2 Creating a schedule

- (a) Insert your examination number at the top of your document.
- (b) You have been asked to create a schedule using the following information.

ICT Conference

Friday 3rd August 2007

Admission Fee €35

Programme

9:30 a.m. Registration and tea/coffee

10:00 a.m. Opening Address by Managing Director of Computers & People

10:30 a.m. FÁS Information Session – Careers in ICT

11:30 a.m. – 1:30 p.m. Exhibitors (Dell, Canon, Toshiba, HP) demonstrate new devices

1:30 p.m. – 2:15p.m. Lunch

2:30 p.m. – 3:00 p.m. Presentation of Awards

3:00 p.m. – 3:15p.m. Closing Address

- (c) Place **ICT Conference** at the top of the page and centre it. Format it using Arial font (centred, size 28 pt, bold).
- (d) The Date and Admission Fee are centred at the top of the document. Format using Arial font (size 16 pt).
- (e) Emphasise the heading Programme.
- (f) Use tabs or columns to align the time with the matching event as follows:

9:30 a.m. Registration and tea/coffee

10:00 a.m. Opening Address by Managing Director of Computers & People

- (g) Choose fonts, spacing, text enhancement, etc., to produce an attractive layout that fits on one A4 page.
- (h) Save the file as **SCHEDULE** and print one copy.

Be sure to return the printout with your answerbook.

Blank Page

Blank Page