

TIME: 1 HOUR 45 MINUTES

NATIONAL CERTIFICATE OF EDUCATION

2023

INFORMATION AND COMMUNICATIONS TECHNOLOGY (N540)

Candidates answer on the Question Paper.

INSTRUCTIONS TO CANDIDATES

- 1. Write your index number in the space provided above.
- 2. Write in dark blue or black ink. Do not use correction fluid.
- 3. You may use a soft pencil for any diagram, graph or rough working.
- 4. Any rough working should be done in this booklet.
- Do NOT use calculators.
- 6. Answer **ALL** questions.
- 7. This document consists of 11 questions printed on 22 pages, numbered 2 to 23.
- 8. The number of marks is given in brackets [] at the end of each question or part question.
- 9. The total marks for this paper is **100**.

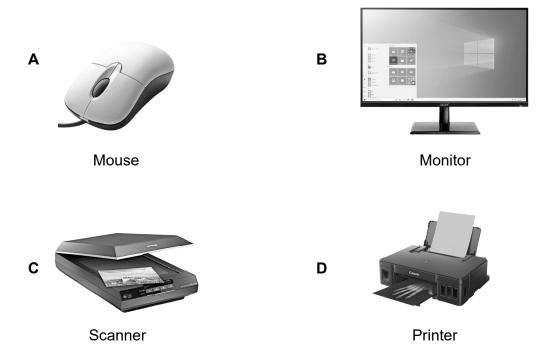
For Examiners' use										
Question No. 1 2 3 4 5 6 7 8 9 10 11 Total Signature										
Examiner										
Team Leader										
CE/ACE										

SECTION A

Question 1 (15 marks)

Circle the letter corresponding to the correct answer. Each item carries one mark.

(a) Which device is used to produce a **hard copy** of a document?



- (b) Which type of **microcomputer** is shown in the picture?
 - A Desktop computer
 - **B** Smartphone
 - C Tablet PC
 - **D** Laptop computer

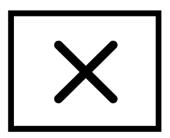


(c) Which **device** is shown in the picture below?



- **A** Speaker
- **B** Plotter
- C Headphone
- **D** Video projector

(d) Which **button** is shown below?



- A Close
- **B** Minimise
- **C** Maximise
- **D** Restore

(e) Which **secondary storage device** is shown in the picture below?



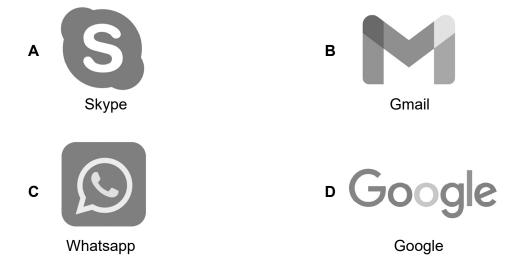
- A Compact disc
- **B** Memory card
- **C** Pendrive
- **D** Hard disc drive
- (f) Study the date given below.

29 **March** 2022

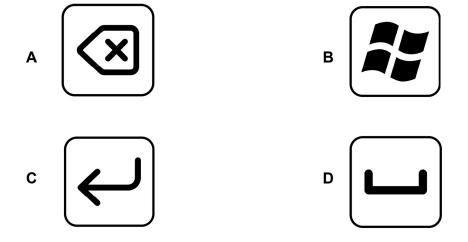
The word 'March' is formatted in

- **A** italics
- **B** underline
- **C** bold and italics
- **D** bold and underline
- (g) **Backup** means to an original document.
 - A delete
 - **B** modify
 - C keep a copy of
 - **D** print a copy of

(h) Which of the following is a **search engine**?



(i) Which one is the **Enter Key** on a keyboard?

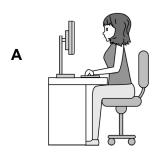


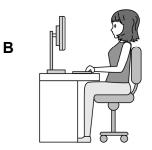
(j) Which **speech balloon** is shown below?

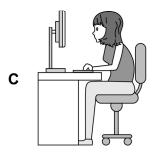


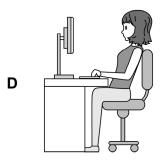
- A Sound balloon
- **B** Thought balloon
- C Secret balloon
- **D** General Speech balloon

(k) Which diagram shows the correct **sitting posture** at a computer?









(I) Which one of the following is an **operating system** used with **smartphones**?





Windows 10

Mac OS



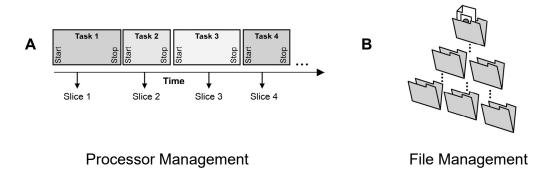


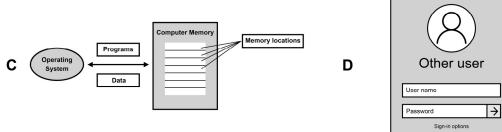
Android

Linux

- (m) Which one of the following is an example of a **computer crime**?
 - A Playing online games
 - **B** Printing a document
 - C Writing an email to a friend
 - **D** Hacking a computer

(n) Which one of the following helps to prevent unauthorised access to a computer?

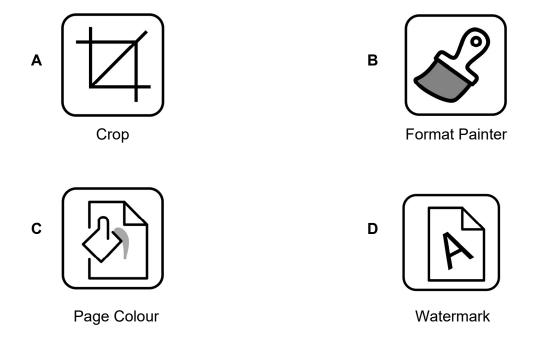




Memory Management

System Security Management

(o) Which tab would you use to remove unwanted parts of a picture?



E TL

Question 2 (10 marks)

(a) Name the following **icons** used in Word Processing. Choose from the list of words given below.

Print	WordArt	Cut
Сору	Paste	Save

X	
4	

[5]

(b) Fill in the blanks with the **correct term** from the given list.

mailing list	power	eye strain
network	Hertz	volume

(i)	If a computer freezes, you should switch off the
(ii)	If you cannot hear the sound, check the level
(iii)	The speed of a computer is measured in
(iv)	Staring at a computer screen for long hours can lead to
(v)	The contains information like names, addresses

[5]

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and phone numbers.

Question 3 (10 marks)

Tick (\checkmark) True or False next to each of the statements below. An example is given.

		True	False
(a)	A mouse is an output device.		✓
(b)	Wifi means wireless fidelity.		
(c)	Page border adds colour to a page.		
(d)	Food and drinks are allowed in a computer lab.		
(e)	A handout is a hardcopy of PowerPoint slides.		
(f)	Online forums are websites used for debates.		
(g)	Any information collected should be kept safe.		
(h)	It is ethical to use someone else's password.		
(i)	A spreadsheet is used to create charts.		
(j)	A paper jam prevents a printer from working properly.		
(k)	One byte is equal to 4 bits.		

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Question 4 (10 marks)

(a) Classify the **hardware devices** given below as Input, Output or Storage devices. Tick (✓) the appropriate column. An example is given.

		Input Device	Output Device	Storage Device
(i)	Monitor		✓	
(ii)	Digital Camera			
(iii)	Joystick			
(iv)	Blu-ray Disc			
(v)	3D Printer			

(b) Match each term in Column A to its correct definition or description in Column B.Write your answers in the answer grid provided below.An example is given.

Column A						
(i)	(i) Terminal					
(ii)	Software					
(iii)	Keyboard					
(iv)	Repetitive Strain Injury					
(v)	Virus					
(vi)	Intranet					
(vii)	Temperature Sensor					

	Column B						
1	is used to enter text.						
2	causes pain in wrists and fingers.						
3	is a private network.						
4	is the name given to computer programs.						
5	is a computer connected to a network.						
6	is used in automatic cooling systems.						
7	connects networks across the world.						
8	is a software that can damage a computer.						

(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)
5						

[6]

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Question 5 (5 marks)

(a) Using the words given below, name the following icons. An example is given.

Centre Bullets	Justify	Align left	Numbering
----------------	---------	------------	-----------

	Justify
1.—— 2.—— 3.——	

[3]

(b) John has accidentally deleted a file. He wants to restore it from the **recycle bin**.



Using 1, 2 and 3, put the following steps in the **correct order** to help John restore the file.

Step

Click on restore.

Order

Open recycle bin.

Right click on file.

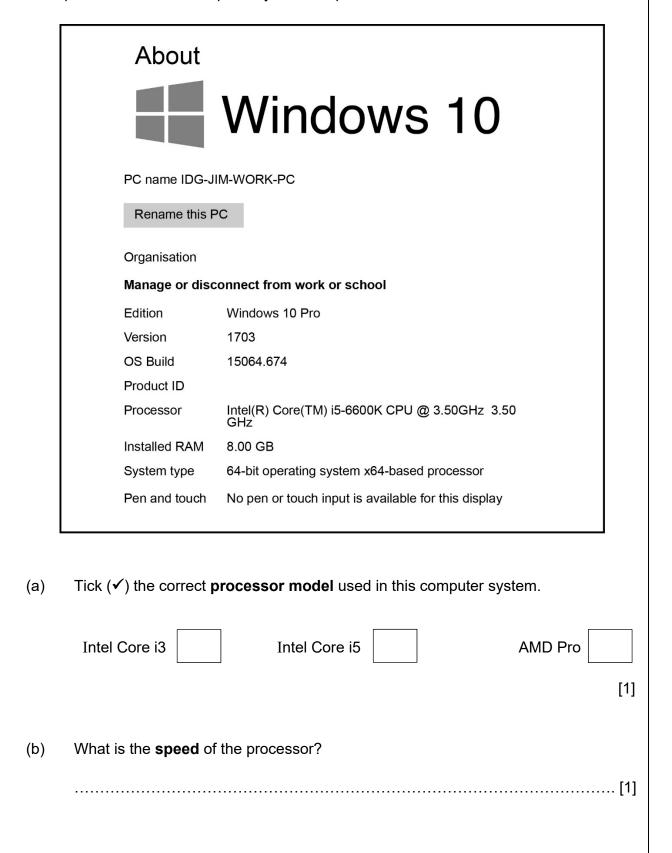
[2]

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SECTION B

Question 6 (5 marks)

The specifications for a computer system are provided below.



Question 7 (8 marks)

(a) The following sentences refer to the features of Microsoft Word.Fill in each blank with the **correct term** from the list given below.

view	layout	page break	section break

(i)	A	is ı	used to	separ	ate	contents	between
	pages.						

(ii)	The	tab	is	used	to	change	the
	orientation of a page from portrait to landscar	e.					

(iii)	A	splits	pages	of a	document
	into parts allowing one to use different formatti	na on	each na	age	

[3]

(b) A table of contents of a textbook is shown below.

		Contents	
Chapter	1.0	Introduction	2
Chapter	2.0	Project Requirements	7
Chapter	3.0	The History of Grammar	12
Chapter	4.0	Parts of Speech	18
	4.1	Nouns	21
	4.2	Verbs	24
	4.3	Adjectives	27
	4.4	Adverbs	31
Chapter	5.0	Sentences	35
	5.1	Complex Sentences	39
	5.2	Compound Sentences	45
Chapter	6.0	Paragraphs	51
	6.1	Descriptive	56
	6.2	Expository	60
	6.3	Narrative	65
	6.4	Persuasive	71
Chapter	7.0	Conclusion	7e

(1)	I ICK (♥) the correct tab which is used to insert the table of contents?	
	View References Mailings	[1]
(ii)	On which page does Chapter 3 start?	
		[1]
(iii)	How many chapters are there in this textbook?	
		[1]
(iv)	What is the name of the chapter that starts on page 51?	
		[1]
(v)	What is the name of the sub-chapter 6.3 ?	
		[1]

E

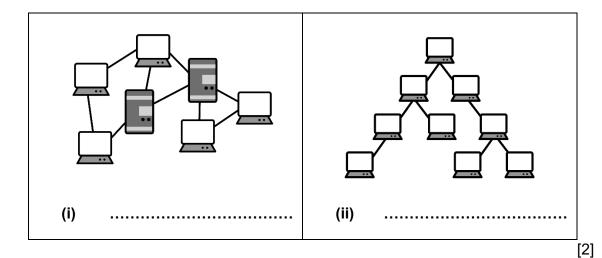
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Question 8 (9 marks)

(i)

(a) Name each **type** of **network topology** shown in the diagram below.



(b) Tina uses **social networking** to communicate with her friends.

Explain the term social networking .
[1]
Give two examples of social networking websites.

(c) Give **two** safe practices that should be adopted when using a social networking website.

1	 												
_													

[2]

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Question 9 (10 marks)

The spreadsheet below shows the data about the sales of JMS Candy Shop.

Refer to the spreadsheet and answer the questions that follow.

	А	В	С	D	E	F					
1	JMS Candy Shop										
2	Item	Cost Price	Selling Price	Profit Per Item	Number in stock	Reorder stock					
3	Bounty	26.50	28.50	2.00	167	NO					
4	Twix	18.00	22.00	4.00	145	NO					
5	Galaxy	22.50	25.00	2.50	32	YES					
6	KitKat	32.00	32.50	0.50	159	NO					
7	Mars	15.50	19.50	4.00	12	YES					
8											
9					Items to be reordered						

1 - 1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	and the second		. 41 C.	. 11	: c	4:
(a)	Write dowr	ı wnıcn c	cell contain	is the to	ollowina	ıntorma	ition:

٠.,	0 / D: / T :
(i)	Cost Price of Twix:
۱ı,	

[2]

(b) Tick (✓) the correct formula that has been used in cell **D3** to calculate the **Profit Per Item** on **Bounty**.

[1]

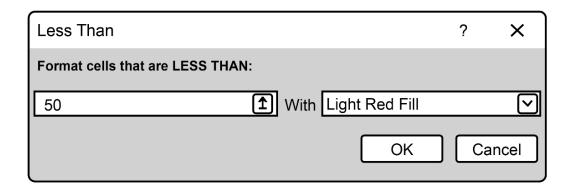
(c) Write the formula that can be used in cell D8 to calculate the total **Profit Per Item**.

(d) When the number of a particular item is **less than 50**, the shop needs to reorder the stock.

Complete the following formula to be used in **cell F3** to find out whether there is a need to reorder stock or not.

[2]

(e) Conditional formatting is applied to cell E3:E7 as follows:



Name the **cells** that will be formatted.

......[2]

(f) The formula **= COUNTIF (F3:F7,"YES")** is used in cell F9.

What will be the output?

.....[1]

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Question 10 (8 marks)

(a)	State whether each of the following statements on databases is True or False .
	An example is given.

(i)	Retrieving information from a computerised database is difficult.	False
(ii)	A primary key is a field which uniquely identifies a record.	
(iii)	Each row of a database table represents a record.	[2]

(b) The table below shows the computerised database that stores details on the departure of flights.

The **FLIGHTS** table is shown below.

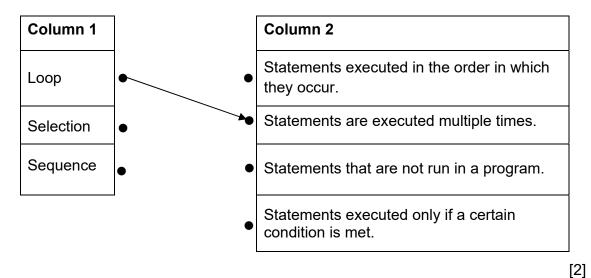
FLIGHT_ID	FLIGHT_NAME	DEPARTURE	LOCATION	DESTINATION
MK-054	Air Mauritius	04:00	Mumbai	Mauritius
MK-001	Air Mauritius	08:00	Mauritius	Rodrigues
AS-102	Air Austral	09:00	St Denis	Mauritius
SP-205	Singapore Airlines	23:00	Mauritius	Singapore
EM-234	Fly Emirates	23:00	Dubai	Mauritius
BA-458	British Airways	07:00	Mauritius	London

(i)	How many fields are there in the FLIGHTS table?
	[1

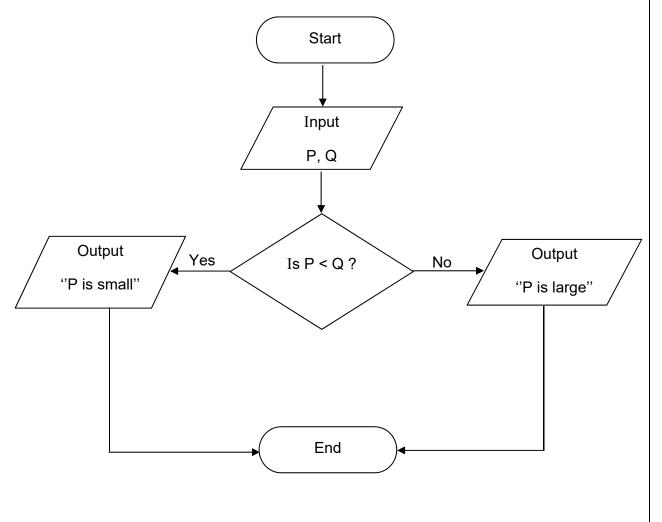
Field	FLIGHT_ID	DEPARTURE	
Table	FLIGHTS	FLIGHTS	-
Sort	ASCENDING		-
Show	✓		_
Criteria		= 23:00	-
Or			_
f flights locate	luery by example gri ed in Mauritius .		_
of flights locate	uery by example gried in Mauritius. FLIGHT_NAME	d below to select and	
f flights locate Field Table	luery by example gri ed in Mauritius .	d below to select and	_
f flights locate	uery by example gried in Mauritius. FLIGHT_NAME	d below to select and	
f flights locate Field Table	uery by example gried in Mauritius. FLIGHT_NAME	d below to select and	-
f flights locate Field Table Sort	uery by example gried in Mauritius. FLIGHT_NAME	d below to select and	-
f flights locate Field Table Sort Show	uery by example gried in Mauritius. FLIGHT_NAME	d below to select and	
f flights locate Field Table Sort Show Criteria	uery by example gried in Mauritius. FLIGHT_NAME	d below to select and	d show the name
f flights locate Field Table Sort Show Criteria	uery by example gried in Mauritius. FLIGHT_NAME	d below to select and	

Question 11 (10 marks)

(a) Match the term in **Column 1** to the description in **Column 2**.



(b) Study the flowchart below carefully.



For the sets of input given below, **dry run** the flowchart.

Р	Q	Output
18	6	
6	14	
12	8	

[3]

(c) Read the following Python commands

Line 1 >>> totalprice = 2010
Line 2 >>> if totalprice > 2000:
Line 3 >>> print('You get a discount')
Line 4 >>> else:
Line 5 >>> print('You do not get a discount')

(i)	What will be the output if the above Python code is run?
	[2]
(ii)	At Line 1 , rewrite the command that will allow a user to enter the value for total price from the keyboard.
	[3

END OF PAPER

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