

Directions to Candidates:

Answer ALL questions in Section A and Section B on this paper; The use of flow chart template is permitted; Calculators are NOT allowed; Good English and orderly presentation are important.

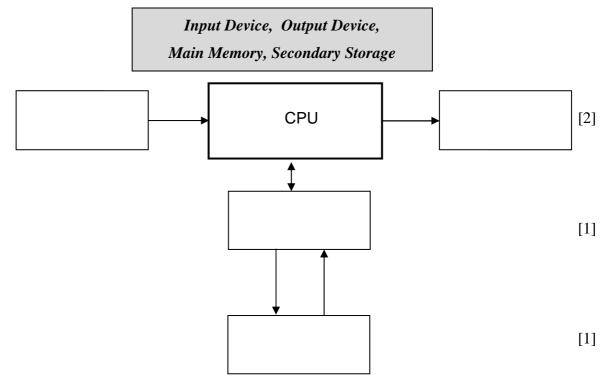
For office use only:

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	Paper Total	Course Work	Final Mark
Max	5	5	5	5	5	5	5	5	5	5	5	15	15	85%	15%	100%
Mark																

Section A - Answer all questions

Ans	Section A - Answer all questions swer the following by writing True or False. The first one has bee	n done for you.	County.co
a.	Laser printers are non-impact printers.	True	
b.	A monitor and a projector produce a softcopy of output.		[1]
c.	A printout is an example of a softcopy.		[1]
d.	Impact printers are noisy.		[1]
e.	Laser printers are faster than inkjet printers.		[1]
f.	Dot matrix printers produce better quality pictures than inkjet.		[1]

2. The main part of a computer system is the CPU. Use the following four terms to a. label the diagram of a computer system given below:



A library system uses a computer system to manage book loans and book returns. b. Suggest one **advantage** of using a computer rather than doing this job manually.

[1]

Use one of the following five devices for each of the statements given below. The first 3. one has been given as an example.

	THE .	
	Se .	
	The second	
Touchpad, hard disk, data gloves, joystick, plotte	er. dot matrix printer	6
		2
An input device often used in Virtual Reality	er, dot matrix printer Data gloves	1.0
applications.		
A pointing device found on portable computers (e.g.		[1]
Laptops).		
A slow, poor quality impact printer that can produce		[1]
carbon copies.		
A magnetic storage device that is the main form of		[1]
backing storage on most computer systems.		
		[1]
An output device used to print maps.		
		-
An input device often used when playing games.		
An input de vice often used when playing games.		

- 4. A supermarket uses a computer system to produce bills.
 - a. Name an **input device** that could be used to enter the product details.

[1]

- b. Suggest two **advantages** of using the device of part 'a.' above rather than typing the item prices manually.
 - i. _____ [1] ii. _____ [1]
- c. OMR (optical mark reader) and OCR (optical character reader) are two input devices. Write **OMR** or **OCR** for each of the following tasks.

	Task	OMR or OCR	
i.	Recognises scanned letters of the alphabet.		[1]
ii.	Detects the presence of a mark on paper.		[1]

5. Give one typical **use** for the following items. *The first one has been given as an example.*

a.	Graphics tablet	Inputting drawings.	
b.	LCD Projector		[1]
c.	Laser Printer		[1]
d.	Digital Camera		[1]
e.	Braille printer		[1]
f.	CD-ROM		[1]

6. Logic gates are found in a computer system.

Name the following logic gates. a.

StudentBounty.com Study the following logic circuit. Then **complete** its truth table below. b.

A B			D	
Α	В	С	D	
0	0			
0	1	0	1	
1	0			
1	1			

The following are five Utility Software. Which software is **used** to perform the tasks given 7. below?

Compression software (eg Winzip), Antivirus, Format, Defragmentation, Scandisk

	Task	Utility Software	
a.	Removing a virus from the computer.		[1]
b.	Preparing a new disk for storing data.		[1]
c.	Arranging parts of the same file on a disk near each other.		[1]
d.	Checking the disk for physical damage.		[1]
e.	Reducing the size of a file.		[1]

8. a. Convert the following numbers into decimal, hexadecimal or binary as indicated. Show your working.

Binary	Decimal	
11010	Answer	[1]
Decimal	Hexadecimal	[-]
57		
	Answer	[1]
Hexadecimal	Binary	

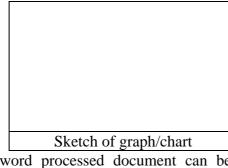
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	Answer [1]

b. **Use** two of the following words to complete the sentence below.

9. a. The following is a screenshot of a Spreadsheet.

	A	В	С	D	E	F
1						
2			Family	Budget Y	early Sum	mary
3						
4			Income	Expenditure	Money Saved	Percentage Saved
5		January	€ 1,280.50	€ 932.40	€ 348.10	27.18%
6		February	€ 1,080.50	€ 954.40	€ 126.10	11.67%
7		March	€ 990.50	€ 939.70	€ 50.80	5.13%
8		April	€ 950.50	€ 932.40	€ 18.10	1.90%
9		Мау	€ 1,180.50	€ 875.30	€ 305.20	25.85%
10		June	€ 980.50	€ 784.30	€ 196.20	20.01%
11		July	€ 1,250.50	€ 1,235.50	€ 15.00	1.20%
12		August	€ 1,000.50	€ 932.40	€ 68.10	6.81%
13		September	€ 999.50	€ 866.90	€ 132.60	13.27%
14		October	€ 1,340.50	€ 932.40	€ 408.10	30.44%
15		November	€ 1,980.50	€ 894.30	€ 1,086.20	54.84%
16		December	€ 1,780.50	€ 999.20	€ 781.30	43.88%
17						
18		Total	€ 14,815.00	€ 11,279.20	€ 3,535.80	
19		Average	€ 1,234.58	€ 939.93	€ 294.65	20.18%
20						

- i. Write the **formula** that was typed in cell C18.
- ii. Write the **formula** that was used in cell C19.
- b. Spreadsheet data can be represented using graphs/charts. **Sketch** and **name** one graph/chart that is available in a spreadsheet application.



_ [2]

[1]

[1]

c. A word processed document can be joined with spreadsheet data to generate personalized letters. Tick (\checkmark) the **name** of this feature.

Mail Merge

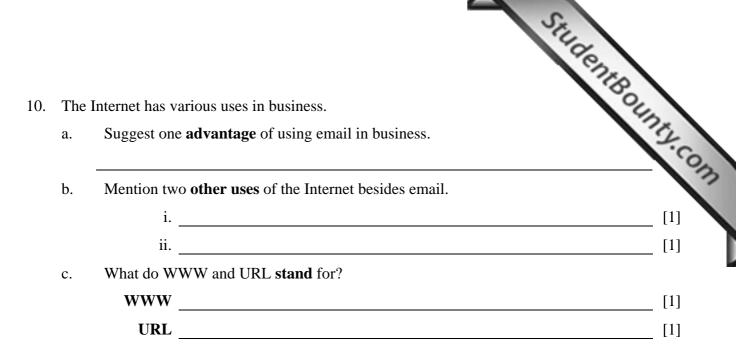
Find and Replace

Spell Check

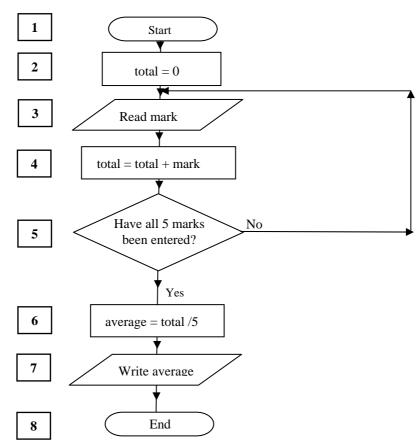
Name of graph/chart

[1]

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11. The following flowchart accepts five exam marks and outputs the average. Each symbol has been numbered for ease of reference.



Study the flowchart above and then write the **number of the flowchart symbol** representing each of the following.

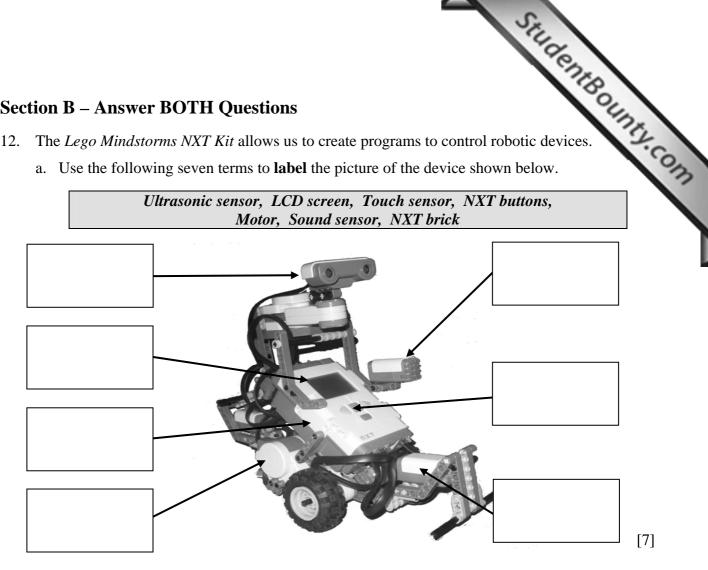
- a. An input instruction [1]
- b. An output instruction [1]
- c. A decision [1]
- d. A process
- e. **Complete** the following sentence: The loop starts with symbol 3 and ends with symbol _____. [1]

[1]

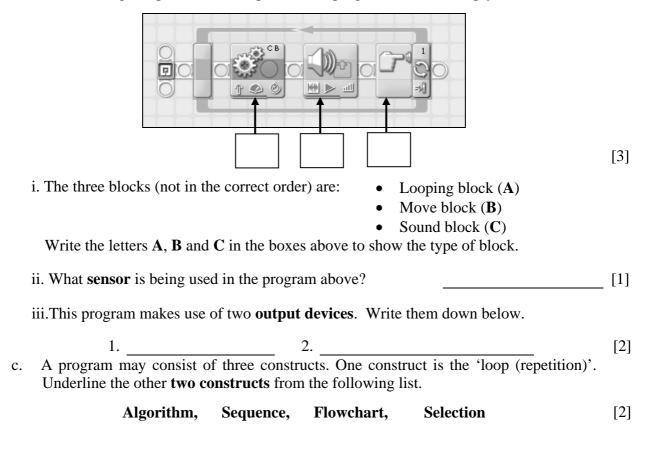
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Section B – Answer BOTH Questions

- 12. The Lego Mindstorms NXT Kit allows us to create programs to control robotic devices.
 - a. Use the following seven terms to **label** the picture of the device shown below.



b. The following is a picture of a simple 3-block program and three empty boxes.



- 13. A computer generally requires both Main Memory and Backing (Secondary) storage.
- StudentBounty.com a. Tick (\checkmark) to show whether the following three items are Main Memory or Backing Storage.

	Item	Main Memory	Backing Storage
i.	Hard Disk		
ii.	Pen Drive		
iii.	RAM		

b. RAM and ROM are both electronic Memory. Tick (\checkmark) to show whether you associate each property with either RAM or ROM.

	Property	RAM	ROM	
i.	Volatile			[1]
ii.	Read and Write			[1]
iii.	Boots up system			[1]
iv.	Read Only			[1]

c. Draw **arrows** to match the following storage devices with their typical capacities.

Storage Device	Capacity	
CD- ROM	5 GB	[1]
Hard Disk	650 MB	[1]
Pen Drive	500 GB	[1]
DVD-ROM	32 GB	[1]

[1] [1] [1]

d. Give one typical use for each of the following storage devices. The first one has been given as an example.

	Device	Use	
i.	Pen Drive	Keeping backups of user documents	
ii.	DVD-ROM		[1]
iii.	Hard disk		[1]

e. Mention:

i. A magnetic storage medium:	 [1]
ii. An optical storage medium:	 [1]