Name : ....   Class: ....   Class No: ....

Answer Part A or Part B

(Each part holds equal marks: Part A – 100 Marks, Part B – 100 Marks)

PART - A

Answer all the questions on this paper itself

Question # 1

What are the following acronyms / abbreviations / terms stands for?   (1 x 10 = 10 Marks)

1. ATM	....
2. CRT	....
3. LED	....
4. LMS	....
5. WBT	....
6. MRI	....
7. EEG	....
8. ASCII	....
9. EBCDIC	....
10. HTTP	....

Question # 2

(i) Fill in the blanks of the following table.   (1 x 4 = 04 Marks)

Term	Meaning
G2C	
G2G	
G2B	
G2E	

(ii) Write four different characteristics of quality information   (1 x 4 = 04 Marks)

1. ....

2. ....

3. ....

4. ....

(iii) What is e – Government?   (02 Marks)

....

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Question # 3

(i) Fill in the blanks of the following table.   (1 x 3 = 03 Marks)

Term	Web Address
Official web portal of the government of Sri Lanka	
Government Information Centre	
Information Communication Technology Agency	

(ii) Write two advantages of WBT.   (1 x 2 = 02 Marks)

1. ....

2. ....

(iii) Write five different ways that the computer and the internet are used for education in the classroom   (1 x 5 = 05 Marks)

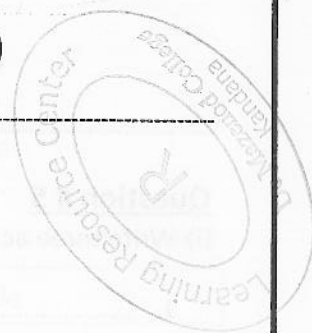1. ....

2. ....

3. ....

4. ....

5. ....

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INFORMATION & COMMUNICATION TECHNOLOGY (ICT)
02nd Term Test 2016   Grade 10   Time: 03 Hours

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Question # 4

(i) Use the following ASCII code table for answering the following questions

Decimal	Character
65	A
66	B
67	C
68	D
69	E
70	F
71	G
72	H
73	I
74	J
75	K
76	L
77	M

Decimal	Character
78	N
79	O
80	P
81	Q
82	R
83	S
84	T
85	U
86	V
87	W
88	X
89	Y
90	Z

(2 X 4 = 08 Marks)

7-bit ASCII value in binary					Word
1001010	1000101	1010011	1010101	1010011	
1010000	1010101	1010010	1010011	1000101	
1001101	1000001	1000100	1000001	1001101	
1001101	1001111	1000100	1000101	1001101	

(ii) The capacity of Aruni's external hard disk is 8 TB. Find it in bits as a power of two.   (02 Marks)

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Question # 5

(i) Write three activities that we can accurately and efficiently perform using Electronic Spreadsheets
                                                                    (1 x 2 = 02 Marks)

1. ....

2. ....

(ii) Write three different names of Electronic Spreadsheet Application Software   (1 x 2 = 02 Marks)

1. ....

2. ....

(iii) Fill in the blanks of the following table.   (1 x 4 = 04 Marks)

Spreadsheet Package	Number of rows	Number of columns
Microsoft Excel 2010		
LibreOffice Calc 4.1		

(iv) Fill in the blanks of the following table.   (1 x 2 = 02 Marks)

Name of the Software	Extension of a file created using this software
Microsoft Office Word 2010	
Microsoft Office Excel 2010	

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Question # 6

Fill in the blanks of the following table.   (1 x 10 = 10 Marks)

Logic Gate	Circuit Symbol	Truth Table
OR		
AND		
NOT		
NOR		
NAND		

Question # 7

(i) Design the logic circuit for Boolean function; $F = \overline{A} + \overline{B}.\overline{C} + B.C$ (04 Marks)

(ii) Someone has constructed the following incomplete truth table for the boolean function; $F = (\overline{A} + B).C$ Complete it using relevant truth values.   (06 Marks)

A	B	C	$\overline{A}$	$\overline{A} + B$	$F = (\overline{A} + B).C$
0	0	0			
0	0	1			
0	1	0			
0	1	1			
1	0	0			
1	0	1			
1	1	0			
1	1	1			

Question # 8

(i) Find a Boolean function for the following truth table.
Let A, B & C are the inputs and X is the output.   (05 Marks)

A	B	C	X
0	0	0	1
0	1	0	0
0	0	1	0
1	0	0	0
0	1	1	0
1	1	0	0
1	0	1	0
1	1	1	1

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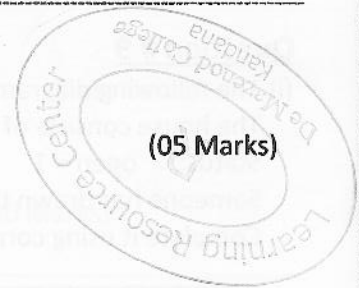
(ii) Construct the Boolean function for the following logic circuit.
Let A, B are the inputs and X is the output.   (05 Marks)
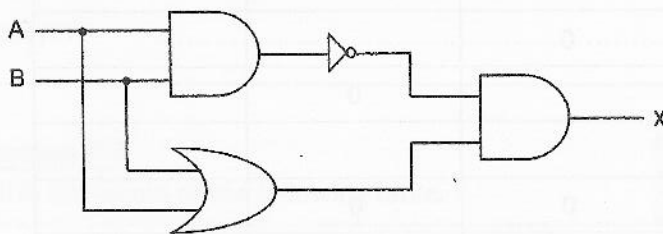
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Question # 9

(i) The following diagram shows a home alarm system.
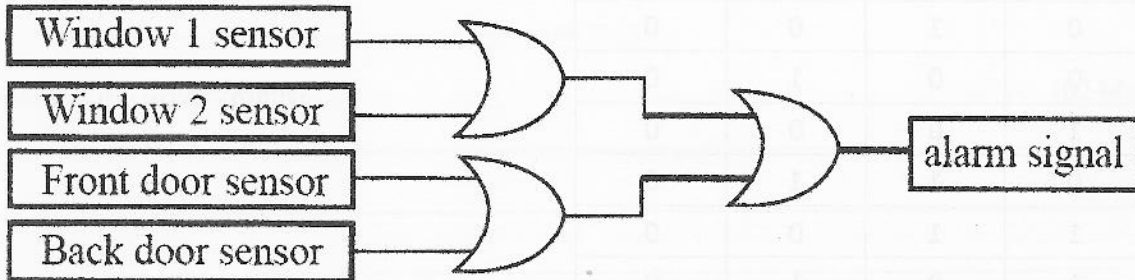The house consists of two windows (Window 1, Window 2) and two doors (Front Door, Back Door)
Status: open = 1   closed = 0   warning state = 1   no warning state = 0
Someone has drawn the following incomplete truth table for the given scenario.
Complete it using correct truth values.   (1 x 5 = 05 Marks)

Window 1	Window 2	Front Door	Back Door	Warning State
0	0	0	0	0
0	0	0		
0	0		0	
0	0			
0		0	0	
0		0		
0			0	
0				
	0	0	0	
	0	0		
	0		0	
	0			
		0	0	
		0		
			0	

(ii) Someone has drawn the following incomplete truth table.
Complete it using correct truth values.   (1 x 5 = 05 Marks)

X	Y	P = NOT(X AND Y)	Q = X OR Y	R = P AND Q
0	0		0	0
0				
	0	1		
		0	1	0

Question # 10

(i) What is the technical equipment used in each computer generation?   (1 x 3 = 03 Marks)

Computer generation	Technical equipment used
First generation	
Second generation	
Third generation	

(ii) What are the shortcut keys for performing the following tasks in Microsoft Word   (1 x 3 = 03 Marks)

Task	Shortcut key
Creating a new document	
Opening a document	
Saving a document	

(iii) Define the following terms briefly.   (1 x 4 = 04 Marks)

Term	Definition
Data	
Information	
System	
QR Code	