DE MAZENOD COLLEGE, KANDANA
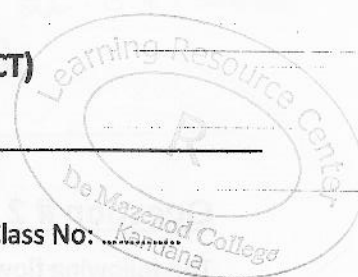
INFORMATION AND COMMUNICATION TECHNOLOGY (ICT)

02nd Term Test 2016   Grade 11   Time: 03 Hours
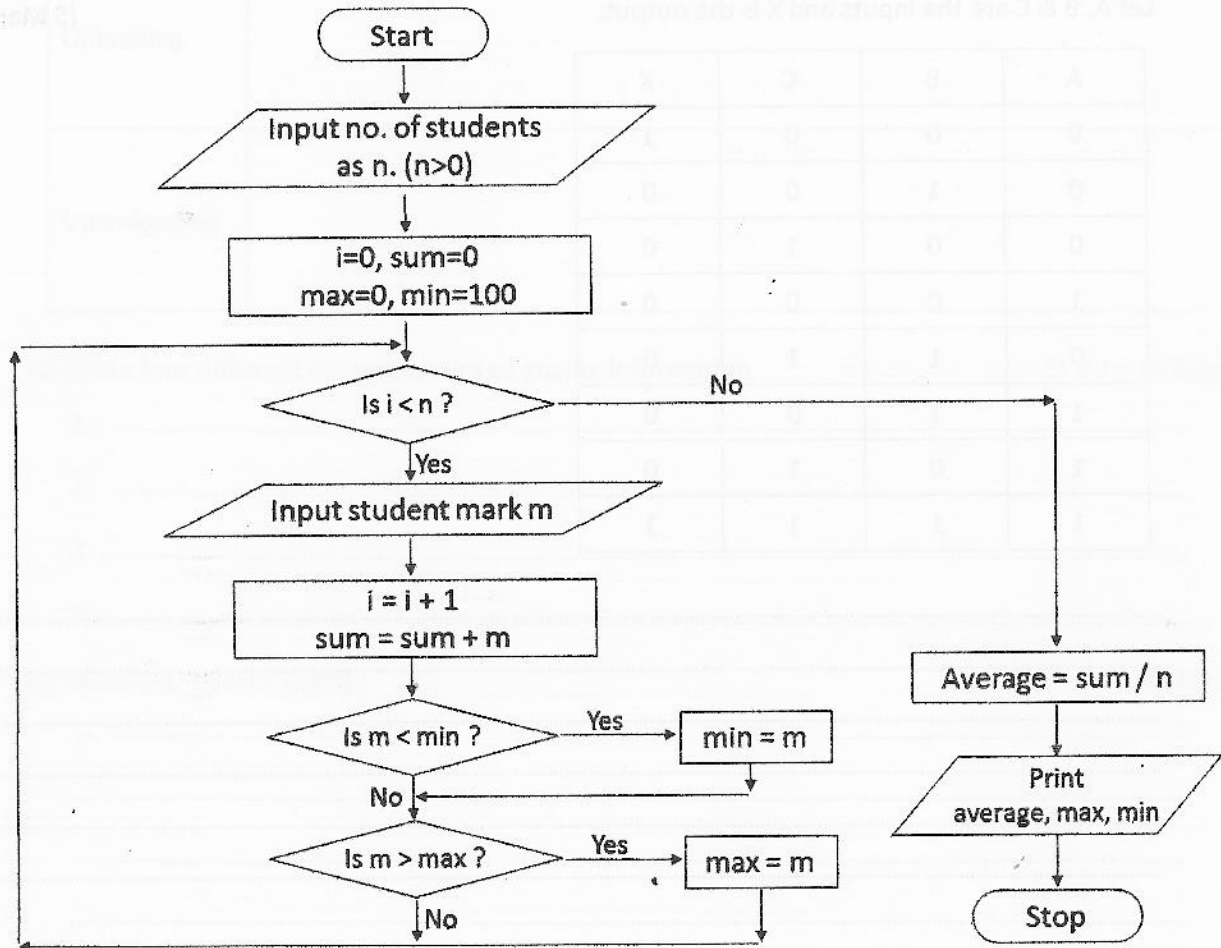Answer all the questions on this paper itself.

26.07.2016

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

Question # 1

(a) Construct Boolean function for the following truth table.

Let A, B & C are the inputs and X is the output.   (5 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

....

....

....

....

....

....

(b) Construct a logic circuit for the Boolean function in part (a) above.   (5 Marks)

Question # 2

The following flowchart represents the algorithm for reading the student marks in a class and displaying average, maximum and minimum.

Write a pseudo code for the logic in the flowchart for the above scenario.   (10 Marks)

Start

Input no. of students as n. (n>0)

i=0, sum=0
max=0, min=100

Is i < n ?

No → Average = sum / n

Yes

Input student mark m

i = i + 1
sum = sum + m

Is m < min ?   Yes → min = m

No

Is m > max ?   Yes → max = m

No

Print average, max, min

Stop
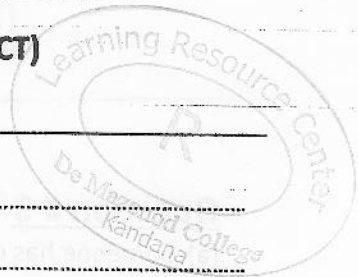
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INFORMATION AND COMMUNICATION TECHNOLOGY (ICT)
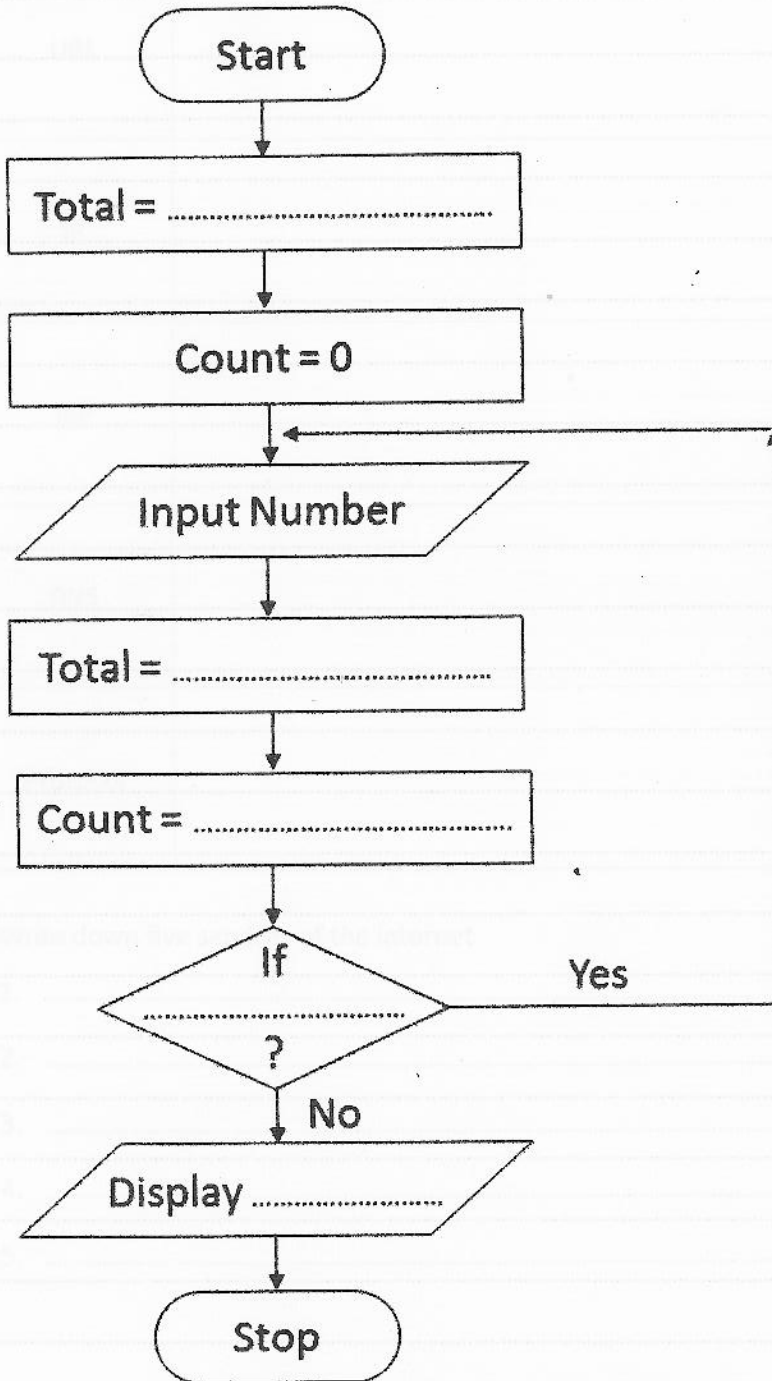
02nd Term Test 2016   Grade 11   Time: 03 Hours

Answer all the questions on this paper itself.

Question # 3

(a) Someone has drawn the following incomplete flow chart for entering five (05) numbers and to calculate and display the total.

Complete it using relevant terms / variables / values / expressions.   (1 X 5 = 5 Marks)
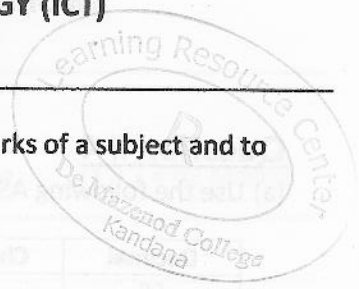
```
                    ┌───────────┐
                    │   Start   │
                    └─────┬─────┘
                          │
          ┌───────────────▼───────────────┐
          │ Total = ..................... .│
          └───────────────┬───────────────┘
                          │
          ┌───────────────▼───────────────┐
          │         Count = 0             │
          └───────────────┬───────────────┘
                          │              ◄──────────────────┐
             ╱───────────▼───────────╲                      │
            ╱      Input Number        ╲                     │
            ╲                          ╱                     │
             ╲──────────┬─────────────╱                      │
          ┌─────────────▼─────────────┐                      │
          │ Total = .................. │                     │
          └─────────────┬─────────────┘                      │
          ┌─────────────▼─────────────┐                      │
          │ Count = ................... │                    │
          └─────────────┬─────────────┘                      │
                        │                                    │
                   ╱────▼────╲                               │
                  ╱    If     ╲          Yes                 │
                 ╱ ........... ╲──────────────────────────────┘
                 ╲      ?      ╱
                  ╲───┬───────╱
                      │  No
           ╱──────────▼──────────╲
          ╱  Display ............  ╲
          ╲──────────┬─────────────╱
                     │
                ┌────▼────┐
                │  Stop   │
                └─────────┘
```

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INFORMATION AND COMMUNICATION TECHNOLOGY (ICT)

02nd Term Test 2016   Grade 11   Time: 03 Hours
Answer all the questions on this paper itself.

(b) Someone has written the following incomplete Pseudo code for entering marks of a subject and to display the grade according to the following criteria.

MARKS	GRADE
Marks ≥ 75	D
50 ≤ Marks < 75	C
40 ≤ Marks< 50	S
Else	F

Complete it using relevant terms / variables / values / expressions.   (1 X 5 = 5 Marks)

Begin

....

If marks>=75 Then

grade = "D"

Else

If .... Then

grade = "C"

Else

If marks>=40 Then

grade = "S"

Else

....

....

End If

End If

....

End

Question # 4

(a) Use the following ASCII code table for answering the following question.

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
1001101	1000001	1000100	1000001	1001101	
1010000	1010101	1010010	1010011	1000101	
1001101	1001111	1000100	1000101	1001101	
1001010	1000101	1010011	1010101	1010011	

(b) Convert 32YB into bits as a power of two.   (02 Marks)

....

....

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....

....

....

....

....

Question # 5

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

   1. ....

   2. ....

(b) 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		

(c) Study the following worksheet and fill in the blanks of the following table under the 'results'.   (1 x 4 = 04 Marks)

	A	B	C	D	E
1	7	5	4	2	
2	3	1	9	4	
3	6	2	4	8	
4				Result	

Formula	Result
=B3^A2+D1	
=B2-B3+B1*(D1+D2^B1)	
=A2^B3-C2+A3*(B3+C1)	
=(D3/(A1+B2))^C2	

Question # 6

(a) Study the following worksheet and find the formula of the cell B3   (02 Marks)

....

	A	B	C	D	E	F	G
1	No. of Overs	1	2	3	4	5	6
2	Runs per Over	13	14	10	7	15	11
3	Total	13	27	37	44	59	70

(b) Study the following worksheet and fill in the blanks of the following table.   (2 X 4 = 08 Marks)

	A	B	C	D	E	F	G	H	I
1		Price of a book	100						
2							No of books		
3				1	2	3	4	5	6
4			Price	100	200	300	400	500	600
5		1	1200						
6	No of Dozens	2	2400						
7		3	3600						
8		4	4800						
9		5	6000						
10		6	7200						

	Cell Address	formulae / function
1	D4	
2	I4	
3	C5	
4	C10	

Question # 7

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

1. ATM ....

2. SMTP ....

3. ICMP ....

4. LMS ....

5. WBT ....

6. TCP/IP ....

7. WWW ....

8. FTP ....

9. HTML ....

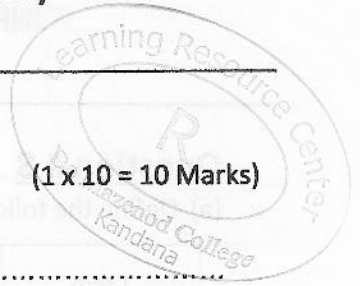10. HTTP ....

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INFORMATION AND COMMUNICATION TECHNOLOGY (ICT)
02nd Term Test 2016   Grade 11   Time: 03 Hours
Answer all the questions on this paper itself.

Question # 8

(a) Define the following terms briefly.   (1 x 5 = 05 Marks)

Term	Definition
URL	
IP	
ISP	
DNS	
Protocol	

(b) Write down five services of the internet   (1 x 5 = 05 Marks)

1. ....

2. ....

3. ....

4. ....

5. ....

Question # 9

(a) Parts of a URL are labeled bellow. Identify the parts 1 to 5 and fill in the blanks of the following table.

(1 x 5 = 05 Marks)

http://www.edupub.gov.lk/e-books/english/ict.pdf
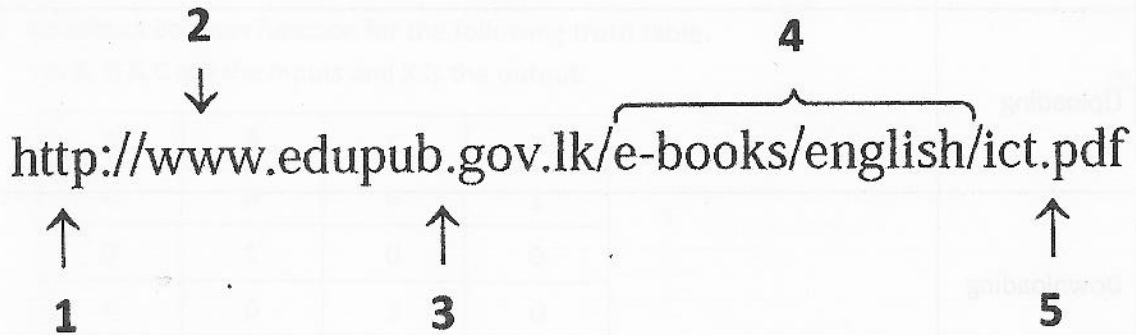
Part	Name of the part
1	
2	
3	
4	
5	

(b) What is the meaning of the following domains? (1 x 3 = 03 Marks)

Domain	Meaning
.edu	
.gov	
.in	

(c) Find the domain name and top level domain of the following URLs. (0.5 x 4 = 02 Marks)

URL	Domain Name	Top Level Domain
http://www.edupub.gov.lk		
http://www.unicode.org/consortium/consort.html		

Question # 10

(a) Define the following terms briefly.   (1 x 2 = 02 Marks)

Term	Definition
Uploading	
Downloading	

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

1. ....

2. ....

3. ....

4. ....

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

....

....

....

....

(d) Fill in the blanks of the following table. (URLs related to the field of education)   (1 x 2 = 02 Marks)

Institute (Ministry / Department)	URL
Ministry of Education	
Educational Publications Department	