

**DE MAZENOD COLLEGE, KANDANA**  
**GENERAL INFORMATION TECHNOLOGY (GIT)**

02<sup>nd</sup> Term Test 2018      Grade 12      Time: 02 Hours

Answer all the questions on this paper itself.

26.03.2018

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

**QUESTION # 1** (2 X 10 = 20 Marks)

What are the following acronyms / abbreviations / terms stands for?

1. ATM .....
2. CD-RW .....
3. CPU .....
4. DOS .....
5. HTTP .....
6. FOSS .....
7. ISP .....
8. LED .....
9. PDF .....
10. VPN .....



**QUESTION # 2** (2 X 5 = 10 Marks)

What are the shortcut keys for performing the following tasks in Microsoft Word 2010 (2 X 5 = 10 Marks)

Task	Shortcut key
Creating a new document	
Saving a document	
Opening a document	
Copy & Paste text	
Replacing a text	

**QUESTION # 3** (2 X 5 = 10 Marks)

Check whether the following statements are true or false

Statement	True / False
According to the OR operation if any input is true, the output will be true	
In the NOT operation, it obviously has only one input and one output	
The decimal equivalent of the binary number $10000100_2$ is 254	
The range of the values in the hexadecimal number system is 0 -10, A - F	
Unicode represents 65356 different numbers, symbols and letters.	

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### QUESTION # 4 (10 Marks)

(a) Ravi has written a word as given below using binary code of 7-bit ASCII system.

1000011 1010101 1010100 1010100 1000101 1010010

Hint: - 7-bit ASCII value of the letter "N" is 1001110 in binary.

What is the word written by Ravi? You don't need to show the steps of the computation.

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(1 X 6 = 6 Marks)

(b)  $2^X$  bits are there in one YB. What is the value of X?

You don't need to show the steps of the computation.

X =  (4 Marks)

### QUESTION # 5 (10 Marks)

(a) Fill in the blanks of the following truth table. (2 X 4 = 8 Marks)

X	Y	[NOT(X AND Y)] AND (X OR Y)
0	0	
0	1	
1	0	
1	1	

(b) A vehicle with two doors has an indicator light to show whether the two doors are properly closed.

When one or both doors are open (1), the light will be 'on' (1).

When both doors are closed (0), the light will be 'off' (0).

What is the name of the logic gate that represents the above scenario?  (2 Marks)

### QUESTION # 6 (10 Marks)

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

A	B	C	A	A + B	F = (A + B).C
0	0	0	1	1	
0	0	1	1	1	1
0	1	0	1	1	0
0	1	1	1	1	1
1	0	0			
1	0	1			
1	1	0		1	
1	1	1		1	1



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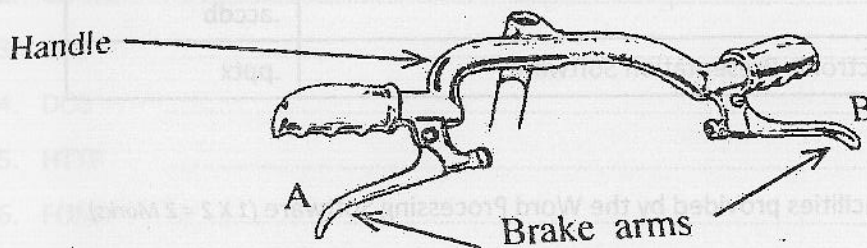
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### QUESTION # 7 (10 Marks)

- (a) A student designs a circuit for the brake system of a bicycle to switch a bulb on when the brakes are applied. When both or any one of the left and the right brake arms in the handle are / is pressed (ie. brakes are on) the bulb is switched on. When both brake arms are released (ie. brakes are off) the bulb is switched off.



The brake arms are labeled as A and B respectively as shown above.

Assume that the bulb is named as C.

Complete the column 'State of C' in the following truth table. (2 X 4 = 8 Marks)

Consider the states as follows:

brake on = 1      brake off = 0

bulb on = 1      bulb off = 0

State of A	State of B	State of C
0	0	
0	1	
1	0	
1	1	

- (b) Design the logic circuit for Boolean function  $F = A + \bar{B}$  (2 Marks)

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**QUESTION # 8** (10 Marks)

Fill in the blanks of the following table. (2 X 5 = 10 Marks)

Software	Type	File Extension
Ms Word 2010		
Ms Excel 2010		
Ms Access 2010		.accdb
Ms PowerPoint 2010	Electronic Presentation Software	.pptx

**QUESTION # 9** (10 Marks)

(a) Write down two different facilities provided by the Word Processing Software (1 X 2 = 2 Marks)

- 1 .....
- 2 .....

(b) Write down two names of Free and Open Source Word Processing Software. (1 X 2 = 2 Marks)

- 1 .....
- 2 .....

(c) Write down two names of Word Processing Software that need to be purchased (1 X 2 = 2 Marks)

- 1 .....
- 2 .....

(d) Write down two advantages of using cloud computing (1 X 2 = 2 Marks)

- 1 .....
- 2 .....

(e) Check whether the following statements are true or false (1 X 2 = 2 Marks)

Statement	True / False
Google Docs is a free Web-based application	
Text created from other word processors cannot be brought into Microsoft Office Word easily	