

GREENLAWNS HIGH SCHOOL

COMPUTER SCIENCE

FINAL EXAMINATION

STD : 8TH A/B/C

MARKS : 80

TIME : 1.5 HOURS

NOTE :

- **ALL THE ANSWERS ON THE ANSWER SHEET. NO NEED TO COPY THE QUESTIONS**

I. Multiple Choice Questions : (8 MARKS)

1. Emp_Name is a _____ identifier and Emp Name is a _____ identifier.
 - a. Valid, Invalid
 - b. Invalid, Valid
 - c. Variable, Constant
 - d. Constant, Variable
2. It is a good practice to write _____ first and then write the code of a program.
 - a. Flowchart
 - b. Spreadsheet
 - c. Algorithm
 - d. Document
3. The functions are grouped into many categories in its _____
 - a. Quick Analysis
 - b. Function Library
 - c. Autocorrect
 - d. Reference

4. This symbol in a flowchart has two output lines
- a. Parallelogram
 - b. Oval
 - c. Rhombus
 - d. Rectangle
5. The process of loading the operating system into the RAM is known as _____
- a. User Interface
 - b. Status Bar
 - c. GUI
 - d. Bootstrapping
6. Which symbol is used in referencing a worksheet in a cell ?
- a. \$
 - b. ;
 - c. :
 - d. &
7. Hardware-software mechanism by which a user and a computer interact is called _____
- a. User Interface
 - b. Interpreter
 - c. Compiler
 - d. None of these
8. Which symbol represents process flow in a flowchart ?
- a. Rectangle
 - b. Oval
 - c. Parallelogram
 - d. Arrow

- II. Write the full forms of : (3 MARKS)**
- a. BIOS
 - b. VBA
 - c. RTOS

- III. Write the symbol name used in flowcharts : (5 MARKS)**
(MAKE THIS TABLE IN THE ANSWER SHEET TO WRITE THE ANSWERS)

SYMBOL	SYMBOL NAME
RHOMBUS	
PARALLELOGRAM	
OVAL	
ARROW	
RECTANGLE	

- IV. Write the shortcut keys for the following : (3 MARKS)**
(SHORT CUT KEY USING THE KEYBOARD)
- a. To have Excel cycle through all the four reference types
 - b. To edit a cell in Ms Excel
 - c. To open Insert Function dialog box

- V. Name the following :**
- a. Four arithmetic operators **(WRITE THE SYMBOL/SIGN OF THE OPERATORS) (2 MARKS)**
 - b. Four relational operators **(WRITE THE SYMBOL/SIGN OF THE OPERATORS) (2 MARKS)**
 - c. Two Operating Systems for Mobile phones **(1 MARK)**
 - d. Two logical operators **(WRITE THE SYMBOL/SIGN OF THE OPERATORS) (1 MARK)**
 - e. Symbol used for absolute cell referencing **(1 MARK)**

VI. MATCH THE FOLLOWING : (4 MARKS)
(WRITE THE ANSWER IN THE FORMAT GIVEN BELOW. FIRST ONE IS DONE AS AN EXAMPLE)

A- Operating System 4 - UNIX

A	Operating System	1	Constants
B	Function	2	Close Button
C	C++ Tokens	3	Frank Gilbreth
D	Title Bar	4	UNIX
E	Flowcharts	5	Autosum

VII. APPLICATION BASED QUESTIONS : (5 MARKS)

The screenshot shows an Excel spreadsheet with the following data:

	A	B	C	D	E	F	G	H	I	J	K	L
1				BREADTH								
2			11	12	13	14	15	16				
3		LENGTH	2	22	24	26	28	30	32			
4			3	33	36	39	42	45	48			
5			4	44	48	52	56	60	64			
6			5	55	60	65	70	75	80			
7			6	66	72	78	84	90	96			
8			7	77	84	91	98	105	112			
9												
10		AREA OF A RECTANGLE										
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

The formula bar shows: **AREA OF A RECTANGLE**

The active cell B10 contains: **AREA OF A RECTANGLE**

- a. Identify the cell referencing in C4
- b. What name is given to the worksheet ?
- c. What name is given to the workbook ?
- d. Write the formula to calculate the maximum area of rectangle with length 7
- e. Write the formula to calculate the minimum area of rectangle with breadth 15

VIII. ANSWER THE FOLLOWING :

A. DEFINE

(10 MARKS)

- a. Formula
- b. Algorithm
- c. Pointing
- d. WIMP
- e. Function
- f. Keywords
- g. Cell range
- h. Flowchart
- i. C++ Tokens
- j. Scroll bars

B. Differentiate between :

(6 MARKS)

- a. Debugger and Linker
- b. Maximize button and Minimize button
- c. Character Constant and String Constant

C. Write the 3 rules of Integer Constant.

(3 MARKS)

D. Name the two types of connectors in flowchart. What is the purpose of each connector. Draw their symbols (4 MARKS)

E. EXPLAIN :

- a. Any four characteristics of a Good Algorithm (4 MARKS)
- b. Any three advantages of a Flowcharting (3 MARKS)
- c. Any two disadvantages of GUI (2 MARKS)
- d. Any two disadvantages of Flowcharting (2 MARKS)

F. WRITE THE JAVA EXPRESSION FOR THE FOLLOWING

ARITHMETIC EXPRESSIONS : (4 MARKS)

- a. abc
- b. $\sqrt{a^2 + 4bc}$
- c. $m^2 + n^2 + q^2$
- d. $\frac{2mn}{2+m+n}$

IX.

A. Draw Flowcharts for the following : (4 MARKS)

- a. To find the product of two input numbers
- b. To input the length of the side of a square and display its area and perimeter.

B. Write an algorithm to find whether the number entered by the user is even or odd. (3 MARKS)

***** ALL THE BEST*****