



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

First Term Examination - 2018

Class : 7



SUB: Computer Science

DURATION: 2 Hrs

F.M.70

DATE:16.04.2018

GROUP A

1. Choose the correct option:

[1×5=5]

- (i) Integrated Circuits are used in the ____ generation computers.
(a) First (b) Second (c) Third (d) Fourth
- (ii) A/An ____ works before a program is run
(a) Interpreter (b) Compiler (c) Assembler (d) None of these
- (iv) The cell labelled G3 refers to:
(a) row G column 3 (b) column G row 3 (c) row G only (d) function key F5
- (iv) The Enter button on the ____ bar acts as the Enter key and feeds in data.
(a) Formula (b) Menu (c) Row (d) Autosum
- (v) The intersection of a row and a column is called:
(a) data (b) a field (c) a cell (d) an equation

2. Answer the following questions:

[1×15=15]

- (i) (a) What is Binary number system?
(b) ICs used in Second Generation computers. [State True/False]
(c) IBM 360 is related to Third generation computers. [State True/False]
- (ii) Fill in the blanks: [1×8=8]
(d) The full form of COBOL is ____
(e) Printer is an ____ device.
(f) We can insert a chart from the ____ group in the ____ tab.
(g) An interpreter or compiler converts a ____ language into binary code.
(h) All computer works on the ____ cycle.
(i) The full form of FORTRAN is ____
(j) MS Paint is an example of ____ software.
- (iii) Match the words in Column A with those in Column B. [1×4=4]

Column A	Column B
#VALUE!	Occurs when a cell reference is not valid
#DIV/0!	Occurs when a value is not available to a function
#N/A	Occurs when a number is divide by zero
#REF!	Occurs when the wrong type of operand is used

GROUP B

3. Answer the following questions: [Any Ten]

[2×10=20]

- (i) What do you mean by the error ##### in Excel?
- (ii) What is 'Output device'?
- (iii) Mention the period of development of Second generation computers.

- (iv) What do you mean by 'Sorting'?
- (v) Define 'Compiler'.
- (vi) What do you mean by a 'Formula'?
- (vii) What do you understand by 'Text Value'?
- (viii) Define System software.
- (ix) Mention the period of development of Third generation computers.
- (x) What do you mean by a 'Function'?
- (xi) What is the function of 'Auto filter'?
- (xii) What is 'Assembler'?

GROUP C

4. Answer the following questions: [Any Six]

[5×6=30]

- (i) Convert the decimal number 457 into binary form.
- (ii) Write a short note on 'Low Level Languages'
- (iii) Explain Charts. Why are they used?
- (iv) Write down the function of the followings:
 - (a) SUM (b) AVERAGE (c) MAX (d) MIN
- (v) Write down the steps to change the Chart Layout in MS Excel.
- (vi) Write briefly about Software and Hardware.
- (vii) Convert the binary number 11010101 into the decimal form.
- (viii) Write a short note on the various milestones in the evolution of computers.



ST. LAWRENCE HIGH SCHOOL

A Jesuit Christian Minority Institution

First Term Examination- 2018

FOR GOD AND COUNTRY

Sub: Computer Science

Class: VII

F.M.: 70

Duration: 2 Hours

Date: 16th April, 2018

SOLUTION

GROUP A

1. Choose the correct option:

(i) Integrated Circuits are used in the _____ generation computers.

Answer: (c) Third

(ii) A/An _____ works before a program is run

Answer: (b) Compiler

(iii) The cell labelled G3 refers to:

Answer: (b) column G row 3

(iv) The Enter button on the _____ bar acts as the Enter key and feeds in data.

Answer: (a) Formula

(v) The intersection of a row and a column is called:

Answer: (c) a cell

2. Answer the following questions:

(i) (a) What is Binary number system?

The binary number system has a base of 2. The digits 0 and 1 are called bits.

(b) ICs used in Second Generation computers. [FALSE]

(c) IBM 360 is related to Third generation computers. [TRUE]

(ii) Fill in the blanks:

(d) The full form of COBOL is Common Business Oriented Language

(e) Printer is an Output device.

(f) We can insert a chart from the Charts group in the Insert tab.

(g) An interpreter or compiler converts a High Level language into binary code.

(h) All computer works on the IPO cycle.

- (i) The full form of FORTRAN is FORMula TRANslator
- (j) MS Paint is an example of Application software.
- (iii) Match the words in Column A with those in Column B.

Column A	Column B
#VALUE!	Occurs when the wrong type of operand is used
#DIV/0!	Occurs when a number is divide by zero
#N/A	Occurs when a value is not available to a function
#REF!	Occurs when a cell reference is not valid

GROUP B

3. Answer the following questions:

- (i) What do you mean by the error ##### in Excel?

Occurs when a column is not valid enough or a negative date or time is used.

- (ii) What is 'Output device'?

Devices that help to display the output after data processing are called output devices. The monitor, printer, speakers and plotter are all output devices.

- (iii) Mention the period of development of Second generation computers.

1956 to 1963

- (iv) What do you mean by 'Sorting'?

Arranging the given data according to a particular field, either in ascending or descending order.

- (v) Define 'Compiler'.

It translates all the instructions into binary code at once, and then carries them out.

- (vi) What do you mean by a 'Formula'?

The relationship between two cells that can contain arithmetic values, expressions, cell addresses and ranges, and the operations that are to be carried out on the cells.

- (vii) What do you understand by 'Text Value'?

A sequence of characters on which the mathematical operations of subtraction, multiplication, and division cannot be performed.

(viii) Define System software.

These are software on which computers work. A system software is designed in such a manner that it operates, controls and executes various applications on the computer. Example: Operating system.

(ix) Mention the period of development of Third generation computers.

1964 to 1971

(x) What do you mean by a 'Function'?

Predefined formula that perform calculations by using specific values, called arguments, in a particular order or structure.

(xi) What is the function of 'Auto filter'?

Auto filter includes filtering for simple criteria by selection.

(xii) What is 'Assembler'?

A program called an assembler is required to translate the assembly language into binary code.

GROUP C

4. Answer the following questions:

(i) Convert the decimal number 457 into binary form.

Answer: $(111001001)_2$

(ii) Write a short note on 'Low Level Languages'

Points: These are of two types.

Machine Language and Assembly Language. Explain. Page: 10

(iii) Explain Charts. Why are they used?

Charts are pictorial representation of data.

Types of charts: 2D charts and 3D charts.

Points: Column chart, Line chart, Doughnut chart, Pie chart, Bubble chart, Cylinder chart, Cone chart, Pyramid chart. Page: 38

(iv) Write down the function of the followings:

(a) SUM: This function helps to add up the values of cells that are listed in the range.

(b) AVERAGE: This function helps to calculate the average of all the values that are listed in the cell range.

(c) MAX: This function enables us to find the maximum value from a given set of values.

(d) MIN: This function allows us to find the minimum value from a given set of values.

Page: 23-24.

(v) Write down the steps to change the Chart Layout in MS Excel.

Go to the Design tab, Scroll down in the Chart Layouts group to get more chart layout options, Select the desired layout. Page: 44

(vi) Write briefly about Software and Hardware.

Hardware: Explain Input devices and Output devices with proper examples.

Software: Explain System software and Application Software. Page: 09

(vii) Convert the binary number 11010101 into the decimal form.

Answer: $(213)_{10}$

(viii) Write a short note on the various milestones in the evolution of computers.

Points: Discuss First, Second, Third, Fourth and Fifth generation Computers. Mention the period of developments, Major milestones achieved and Machines developed. Page: 07

Handwritten notes:
1. Input devices: Keyboard, Mouse, Joystick, Touchpad, etc.
2. Output devices: Monitor, Printer, Speaker, etc.