

Name _____ Date _____ Class: Inspiring C Subject: Computer (Tier 1,2,3)

Q1.Explain the term Operating System with diagram?

Q2.Explain it with Diagram, An operating System acts as an interface between the user and hardware?

Q3.Explain the following term:

- | | |
|--------------|-------------------|
| a. Algorithm | e. XOR Gate |
| b. Flowchart | f. Logic Circuits |
| c. NOR Gate | g. Clicks Charts |
| d. AND Gate | |

Q4.Draw the Symbols of the following

- | | |
|---------|-----------------------|
| a. AND | g. NAND |
| b. OR | h. Decision Box |
| c. NOT | i. Flow Lines |
| d. XOR | j. Start/Stop Box |
| e. XNOR | k. Processing Box |
| f. NOR | l. Input / Output Box |

Q5.Complete the following truth table:

INPUT		OUTPUT T
X	Y	$X \cdot Y$

INPUT		OUTPUT
X	Y	$\overline{X+Y}$

X	Y	OUTPUT $X \oplus Y$

Q6.Draw the logical Circuit and Write the Boolean Expression:

- a. $F=(AB + BC + BA)$ _____
- b. $F= XY + YZ + ZX$ _____
- c. $(X + Y) \cdot (Y + Z) \cdot (Z + X)$ _____

Q7.Write an algorithm to subtract two numbers?

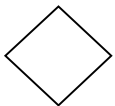

Q8.Write an algorithm to find the average score of student marks of five subjects?

Q9.Write the algorithm to find the total amount paid for 10 items Enter the Quantity Q and Unit Price P for every item brought?

Q10.Write a flowchart to add two numbers with proper Symbols?

Q11.Write a flowchart to enter the marks of a student in variable T. If it is greater than 60, print 'PASS' otherwise Print 'FAIL'.

Q12. Write the Function of the following Symbols?

a) 	B) 	c) 