

Tilottama Secondary School
Assignment -2077

Grade: XI

FM-75

Time: 3hrs

Subject: Computer Science PM-30

Group-'A'

[Long Answer Questions]

Attempt any **THREE** questions.

3x10=30

1. What is Boolean algebra? Describe NAND and XOR gates with statement, logic symbols and truth table [2+8=10]
2. Draw the block diagram of computer system. Explain the input and processing units.[4+6=10]
3. What is operating system (OS)? Describe its functions in brief. [2+8=10]
4. What do you mean by program control structure? Explain about selection control and iteration control with examples.[2+8]

Group-'B'

[Short Answer Questions]

Attempt any **NINE** questions.

9x5=45

5. Write main differences between analog and digital computers.
6. Convert as indicated below.
a- $(203.75)_{10}$ into binary b. $(B0A.07)_{16}$ into octal
7. Write main differences between primary and secondary memory.
8. What do you mean by cell reference? Explain its types.
9. Subtract $(1110)_2$ from $(1111)_2$ using 1's and 2's complement method.
10. What are errors? Explain with its types.
11. Explain the types of e-mail account.
12. What is system bus? Explain its types.
13. Write an algorithm and draw a flow chart to check whether an input number is positive, negative or zero.
14. Write short notes on (Any TWO):
a. TCP/IP b. Mobile computing c. Virtual memory
15. Explain the <SELECT> tag and <A> tag with its properties and value

Best of Luck