

Tilak Maharashtra Vidyapeeth
Bachelor of Computer Application
1st year Semester I
Subject: - Computer Fundamentals (BCA- 121)
Total 60Marks

Assignment 1 **(20marks)**

- 1) Explain with examples Input devices and Output devices (with 2 examples)
- 2) Differentiate between positional number system and non-positional system.
- 3) Draw block diagram of AND gate and OR gate with truth table
- 4) Describe Advantages and limitations of Flowcharts
- 5) Write a short note on Multi-Tasking and Multi-programming

Assignment 2 **(20marks)**

- 1) Write a short note on Arithmetic Logic Unit and Control Unit. Explain with block diagram
- 2) Explain with 2 examples steps for Converting a number from a base other than 10 to another base other than 10
- 3) Write a short note on Universal NAND gate & Universal NOR gate
- 4) Draw various symbols used in “Flowcharts”. Explain each symbol’s functionality
- 5) Write a short note on MS-DOS and UNIX operating system.

Assignment 3 **(20marks)**

- 1) Write a short note on Memory Management
- 2) Explain with 2 examples Shortcut method for converting a number from Octal to binary
- 3) Explain with diagram
 - i) Design of Half- adder
 - ii) Design of Full- Adder
- 4) Write a short note on Pseudo code and Algorithms (with any 2 examples)
- 5) Write a short note on Windows XP and Windows Vista