

Total No. of Questions - [ 3]

Total No. of Printed Pages: 1

G.R. No.

Paper code - V119-109 CB (T1)

**OCTOBER 2019 / IN-SEM (T1)**

**F. Y. B.TECH. (COMMON) (SEMESTER - I)**

**COURSE NAME: Computer Fundamentals -CB**

**COURSE CODE: CS10182B-CB**

**(PATTERN2018)**

Time: [1 Hour]

[Max. Marks: 20]

**(\*) Instructions to candidates:**

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Use of scientific calculator is allowed.
- 4) Use suitable data where ever required.

Q 1) Attempt any **two**.

- a) Draw a block diagram of a computer system. Explain the function of each of the blocks. [4]
- b) Differentiate between Assembly level, high level, middle level and low level language [4]
- c) Write an pseudo code and flowchart to find first smallest in a given numbers. (1,27,45,65,74,3,2) [4]

Q 2) Attempt any **two**

- a) List different operators. Explain bitwise operator with example. [4]
- b) Write a program to print all prime factors of a given number. Number is 36 [4]
- c) Write the rules associated the syntax of switch case statement. Explain the concept with example. [4]

Q 3) Attempt any **one**.

- a) Define terms: Constant time, Linear time, Logarithmic time, Quadratic time [4]
- b) Find the selection sort algorithm results for each pass for the following initial array of elements : [ 21,6,3,57,13,9] [4]