

Total No. of Questions – [3]

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Paper code - U118-109 CB (T1)

**OCTOBER 2018 / IN - SEM (T1)**  
**F. Y. B.TECH. (CB) (SEMESTER - I)**  
**COURSE NAME: Computer Fundamentals(CB)**  
**Course Code: CS10182B-68**  
**(2018 PATTERN)**

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

**Q1) Attempt any two**

- a) What is Operating System? Enlist and explain the functions of Operating system. [4]
- b) Write a pseudo code and flowchart for "table of 2". [4]
- c) What is an interpreter? How does it differ from a compiler? And relate with linker and loader. [4]

**Q2) Attempt any two**

- a) Explain loop statements with example? [4]
- b) Write a Program to print ASCII values of A to Z characters. [4]
- c) Write a program to determine whether a given number is 'odd' or 'even'. [4]

**Q3) Attempt any one**

- a) Given array is: 42 29 75 11 65, sort given array using bubble sort algorithm in ascending order and find result after 2 passes completion? [4]
- b) Find time complexity of given program: [4]

```
void main()
{
    int i, j, n, a=1;
    printf("\n Enter the value of Number=");
    scanf("%d", &n);
    for(i=0; i<n; i++)
    {
        for(j=0; j<n; j++)
        {
            a=a+5;
            printf ("a=%d", a);
        }
    }
}
```