BIT SINDRI

Mid Semester Examination- 2018
Semester – 2nd (All Department)
Subject- PPS

Time: 1:30 Hour   **Max Marks- 20**

Note:

- **All Questions carry equal marks.**
- **Solve any five questions.**

1. Distinguish between **break, continue** and **goto** statements with proper examples.   [4]

2. What is a flowchart? Draw a flowchart to find the factorial of a number using loop.   [4]

3. Convert a hexadecimal number $(AC9)_{16}$ to its binary and decimal equivalent .   [4]

4. What is the difference between **while** and **do-while** statements. Give suitable examples for each.   [4]

5. Discuss the various components of a computer system.   [4]

6. What are the different types of operators in C programming. Discuss with examples.   [4]

7. Find out the output of the following code snippet: [2+2=4]

```
a) #include<stdio.h>
   int main ()
   {
   int a = 10, b = 25;
   a = b++ + a++;
   b = ++b + ++a;
   printf ("%d %d \n", a, b);
   return 0;
   }
```

```
b) #include<stdio.h>
   int main ()
   {
   int n;
   for (n = 7; n! =0; n--)
   printf ("n = %d", n--);
   return 0;
   }
```