

Fr. CRIT, VASHI

## INTERNAL ASSESSMENT - I

Branch: All

Sub: SPA

Time: 1 Hr.

Date:

Q 1) Answer any five:[CO2]

[10]

- i) Explain the different format specifiers used in C language with the help of printf() function. [02]
- ii) Explain sizeof operator. [02]
- iii) Compare int and char data type. [02]
- iv) Explain bitwise operators with example. [02]
- v) Write output for following program: [02]

```
#include<stdio.h>
void main()
{
int x=10, y, z;
z=y=x;
y -= --x;
z -= x--;
x -= --x - x--;
printf("x=%d y=%d z=%d", x, y, z);
}
```

- vi) Define algorithm and flowchart with its three constructs. [02]

Q 2) Answer any one:[CO1]

- i) Write an algorithm and draw flowchart for roots of quadratic equation. [05]
- ii) Write an algorithm and draw flowchart to check given number is Armstrong or not [05]

Q 3) Answer any one:[CO3]

- i) Write a program to calculate average of four subjects mark and declare student is PASS or FAIL. Also write output. [05]
- ii) Write a program to find largest number among three. Also write output. [05]

$x * = b \rightarrow x = x * b$

$y = y - (x)$   
 $z = z - (x)$   
 $x = 10 \quad y = 10 \quad z = 10$   
 $y = 10 - 9 = 1$   
 $x = 9 \quad y = 1 \quad z = 10$