

DATTA MEGHE COLLEGE OF ENGINEERING
DEPARTMENT OF HUMANITIES AND SCIENCES
ACADEMIC YEAR: 2014-15 (TERM – II)

CLASS : ALL BRANCHES	SUBJECT : SPA (FEC205)	DURATION : 1 HOUR	MAXIMUM MARKS : 20	TEST – 1
----------------------	------------------------	-------------------	--------------------	----------

NB: ATTEMPT ANY FOUR QUESTIONS. EACH QUESTION CARRIES EQUAL MARKS.

- Q.1 Explain Bitwise Operators with suitable examples.
- Q.2 Write a program to find smallest of three numbers using Conditional Operator.
- Q.3 Write an algorithm and draw flowchart to calculate roots of Quadratic Equation.
- Q.4 Write a program to display grade according to marks obtained by student.
70 & above – Distinction, Between 60 and 69 – First Class, Between 50 and 59 – Second Class,
Between 40 and 49 – Pass Class, Below 40 - Fail
- Q.5 Write a program to compute npr and ncr (Permutation & Combination) values.
- Q.6 Find Output of following program

```
#include <stdio.h>
#include <conio.h>
void main()
{
int x=4,y=9,a=2,b=5,c=10;
z=(x++) + (- -y) + y;
printf("Value1 = %d \n", z);
z=(--x) + x + (y--);
printf("Value2 = %d \n", z);
printf("Value3 = %d \n", (a + b*-c));
printf("Value4 = %d \n", (-c/b*c-a));
printf("Value5 = %d \n", (-a+ ++b %a));
}
```