Mini Assessment Test -1 : (Section – N) (Set - 1)
Syllabus: Number systems, printf() basics, Variable declarations, Datatypes, Operators, Expressions.
Time: 1 hr. Date: 16.08.2016

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1. What is the output of the following C program? **5 marks**

```
#include<stdio.h>
int main()
{
        int i = 8, j = 4, k = 3;

        printf("%d", i/3*8+k*2>=j%2/2+k-9<=(81%8) && (i*k/12)==2);

}
```

2. What is the output of the following C program? **5 marks**

```
#include<stdio.h>
int main()
{
        int i = 10, j = 20;
        printf("%d %d %d %d %d", j--,--j, ++i, j, i--);

}
```

3. Convert (321) in decimal to the corresponding Hexadecimal format. **3 marks**

4. List the size of the following datatypes: (a)int, (b)float, (c)char, (d)long 2 marks **4 marks**

5. What is expression in C? Give two examples. **4 marks**

6. Define following with suitable examples: (a)Relational operators and (b)Logical operators. **5 marks**

7. Assume that there is a signed integer 'x' and an unsigned integer 'y', both are 25 Bytes in size. What are the range of values that can be assigned to x and y? **4 marks**

Mini Assessment Test -1 : (Section – N) (Set-2)
Syllabus: Number systems, printf() basics, Variable declarations, Datatypes, Operators, Expressions.
Time: 1 hr. Date: 16.08.2016

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1. What is the output of the following C program? **5 marks**

```
#include<stdio.h>
int main()
{
        int m = 8, n = 4, k = 3;

        printf("%d", m/3*8+k*2>=n%2/2+k-9<=(81%8) && (m*k/12)==2);
        return 0;

}
```

2. What is the output of the following C program? **5 marks**

```
#include<stdio.h>
int main()
{
        int i = 15, j = 24;

        printf("%d %d %d %d %d", j--, --j, ++i, j, i--);

}
```

3. Assume that there is a signed integer 'x' and an unsigned integer 'y', both are 18 Bytes in size. What are the range of values that can be assigned to x and y? **4 marks**

4. What is expression in C? Give two examples. **4 marks**

5. List the size of the following datatypes: (a)int, (b)float, (c)char, (d)long **4 marks**

6. Define following with suitable examples: (a)Relational operators and (b)Logical operators. **5 marks**

7. Convert (278) in decimal to the corresponding Hexadecimal format. **3 marks**