National Institute of Technology, Kurukshetra (Haryana)

B.Tech. Mid-Semester Exam. Sep. 2017

Branch: CT   Semester: 1st
Subject: Basics of Programming   Subject Code: CSIR11
Time: 50 Min.   Maximum Marks: 15

Note: 1. Attempt all questions
      2. Presume data if required
      3. Each question carries 5 marks.
      3. Sub-marks allotted to every sub-question are given along with the question.

1. (a) Compare the use and working of primary and secondary memory? (2)
   (b) What is an operating system? Why it is necessary for a computer system? (2)
   (c) Find the output

```c
#include <stdio.h>
main ()
{
int x=3;
float y=3.0;
if(x==y)
printf("x and y are equal \n");
else
printf("x and y are not equal");
return0;
}
```
(1)

2. (a) List various phases of software development life cycle and describe each briefly? (2)
   (b) Write a C program the use of integer arithmetic convert a given no. of days into months and days. (2)
   (c) Find the output

```c
main ()
{
int x:
x=9>7<2;
printf("%d", x);
getch();
}
```
(1)

3. (a) Write a program in C selects and prints the largest of three numbers using nested if else statements. (1.5)
   (b) Write a program to print the following outputs using loops

```
****
***
**
*
```
(1.5)

   (c) What is the significance of break keyword in switch construct? What will be behavior of a switch block having no break statement? Explain with an example of your own. (2)