PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
B.Tech. Summer 2018 - 19 Examination

Semester: 1/2   Date: 22/05/2019
Subject Code: 03108101   Time: 02:00 pm to 04:30 pm
Subject Name: Fundamental of Programming   Total Marks: 60

Instructions:
1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 Objective Type Questions - (Each of one mark)   **(15)**
1. Which of following is not a valid assignment expression?
   (a) y = 22 ;   (b) s = x;   (c) y % = 6;   (d) z = 5 = 3;
2. Convert octal 377 to binary.
   (a) 11101101   (b) 01111011   (c) 10110111   (d) 11111111
3. Continue statement used for
   (a) To continue to the next line of code
   (b) To stop the current iteration and begin the next iteration from the beginning
   (c) To handle run time error   (d) None of above
4. ALU is
   (a) Array Logic Unit   (b) Application Logic Unit (c)Arithmetic Logic Unit   (d) None of these
5. printf() belongs to which library of c
   (a) stdlib.h   (b) stdout.h   (c) stdio.h   (d) stdoutput.h
6. A float requires _____bytes in memory
7. _____ converts the programs written in assembly language into machine instructions
8. The hexadecimal equivalent of a binary 111111110010 is _____
9. When function call itself it is known as_____
10. Define Array.
11. Structure can contain elements of the same data type. (a) true (b) false
12. Convert the binary number 1001.0010 to decimal.
13. What will be the output of following program
```
void main()
{
    int i;
    for(i=65;i<70;i++)
    printf("%c",i);
}
```
14. What will be the output of following program
```
#include
main()
{
    int x,y = 10;
    x = y * NULL;
    printf("%d",x);
}
```
15. Define malloc()

Q.2 Answer the following questions. (Attempt any three)   **(15)**
A) Draw flowchart to find minimum of three numbers N1, N2, N3.
B) What is structure? Explain with example how to declare a structure and how to initialize it.
C) What is a pointer? How is a pointer initialized?
D) Explain Entry Controlled Loop and Exit Controlled Loop with flowchart

Q.3 A) List operators in C. Explain any four operators used in C language.   **(07)**
B) What is function? Explain the function definition, function prototype and function call with   **(08)**
   relative example.

OR

B) Explain various string handling functions.   **(08)**

Q.4 A) Write a C program to which copies the contents of one file to other.   **(07)**

OR

A) Write a program in c for multiplication of two matrix   **(07)**
B) Explain basic structure of C program.   **(08)**