

Seat No: \_\_\_\_\_

Enrollment No: \_\_\_\_\_

**PARUL UNIVERSITY**  
**FACULTY OF IT & COMPUTER SCIENCE**  
Parul Institute of Computer Application  
Bachelor of Computer Application  
2019\_20 Mid Semester Examination

Semester: 1  
Subject Code: 05101102/05301102  
Subject Name: Fundamental of Programming

Date: 04/09/2019  
Time: 10:00 to 11:30  
Total Marks: 40

**Instructions:**

1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.

**Q.1 Answer the following.**

[10]

(a)

[3]

- (1) What is Data type?
- (2) Write down syntax of while loop.
- (3) What is the output of this C code?

```
#include <stdio.h>

#include <conio.h>
void main()
{
    int i = 1;
    printf("n%d", ++i);
    printf("n%d", i++);
    getch();
}
```

(b) MCQs/True-False.

[7]

- (1) State whether the following are true or false:  
"Every C program must have one main function section."  
(a) True      (b) False
- (2) Which printf() statement will you use to print out a (float value) and b (double value)?  
float a=3.14;  
double b=3.14  
(a) printf("%d %d", a,b);      (b) printf("%f %lf", a,b);  
(c) printf("%D %L", a,b);      (d) printf("%f %f", a,b);
- (3) Which operators give the remainder values?  
(a) %      (b) /      (c) \*      (d) +
- (4) A single line comment in C language source code can begin with \_\_\_\_\_.  
(a) /      (b) /\*      (a) #      (b) //

(5) long double a;

The above example occupies \_\_\_\_\_ bytes of memory space.

- (a) 4      (b) 6      (c) 8      (d) 10

(6) Which of the following is the keyword of 'C' ?

- a) define      b) array      c) enum      d) include

(7) What is the output of following code?

```
#include<stdio.h>
int main()
{
    unsigned char a = 5, b = 20;
    printf("a<<1 = %d\n", a<<1);
    printf("b>>1 = %d\n", b>>1);
    return 0;
}
```

- (a) 5,20      (b) 10,10      (c) 10,40      (d) 4,19

**Q.2 Answer the following.** (2 or 3 mark questions)

[10]

(a)

[4]

- (1) Distinguish between Compiler and Interpreter.
- (2) What is algorithm? Write an algorithm to print "My Computer".

(b)

[6]

- (1) Write a C Program to Calculate Area of triangle
- (2) Explain Conditional Operator with an example.

**Q.3 Attempt any TWO.**

[10]

- 1) Define Flowchart. Draw a flowchart of to check whether the number is positive or negative
- 2) Explain structure of C with example.
- 3) A= 50 B=12 perform Bitwise AND, bitwise OR, Bitwise XOR operation

[5]

[5]

[5]

**Q.4 Answer the following.**

[10]

(1) What is Operator? List out Operators in C and explain any one in detail with an example. [5]

(2) Write a syntax of if ...else statement. Write a C Program to find Largest number among three number entered by the user.

**Or**

(2) Write a syntax of else if... statement. Write a C Program to find Smallest number among three number entered by the user.