

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

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

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

**Semester: 1**  
**Subject Code: 05101102**  
**Subject Name: Fundamentals of Programming**

**Date: 06/09/2018**  
**Time: 10:00 to 12:00**  
**Total Marks: 40**

**Instructions:**

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

**Q.1 Answer the following.**

**(a) Answer the following questions.**

[3]

1. Distinguish between constant and variable.
2. How many times i value is checked in the below code?

```
#include <stdio.h>
int main()
{
    int i = 0;
    do {
        i++;
        printf("in while loop\n");
    }
    while (i < 3);
}
```

3. List the different types of bit-wise operator.

**(b) Do as directed.**

[7]

1. Which is valid C expression?

a) int my\_num = 100,000;  
c) int my num = 1000;

b) int my\_num = 100000;  
d) int \$my\_num = 10000;

2. What is the output of this C code?

```
#include <stdio.h>
int main()
{
    int i = 0;
    int x = i++, y = ++i;
    printf("%d %d\n", x, y);
    return 0;
}
```

a) 0, 2

b) 0, 1

c) 1, 2

d) Undefined

