Institute of Information Technology, Sri City, Chittoor

Computer Programming in C Duration: 90 Minutes. Max Marks: 60.

Roll No.: _____ Room No.: _____ Seat No.: _____

Name: _____ Invigilator's Signature: _____

Instructions

- This is an open book test. You may carry printed material with you. Borrowing books or any printed material from another student is strictly prohibited.
- You are not allowed to carry any hand written notes.
- Please switch off your mobile phones and any other digital equipment you may have (like smart watches, calculators).
- A negative mark of -1 applies to all questions in Part 3 only when answered incorrectly or partially.
- Write all answers correct up to two decimal places.
- Put down your final answer in this sheet.
- Assume int is 4 bytes long.
- Assume all the necessary include directives are added by the IDE. Also, you may assume that we use Code::Blocks configured with gcc 6.4 on a Windows 10 64-bit Intel Core i5 3230M CPU unless mentioned otherwise. This is same as your instructor's laptop configuration.

Part 1: 5 Questions. Each question carries 1 marks. No negative marks.

Question 1. 1 What is the output? Assume that the user input is 3.

```
int main()
{
    int number;
    scanf("%d", &number);
    printf("%d", 2);
}
```

Tick the correct answer:

(1) 1
(2) 2
(3) 3
(4) 5
(5) 0

<Questions 2 to 5 go here>

Part 2: 5 Questions. Each question carries 2 marks. No negative marks.

Question 2. 1 What is the output?.

```
int main()
{
    int a=1,b=2;
    a=a+b;
    b=a-b;
    a=a-b;
    printf("%d %d",b,a);
}
```

Answer: _____.

<Questions 7 to 10 go here>

Part 3: 15 Questions. Each question carries 3 marks. -1 for incorrect or partial answer.

Question 3. 1 What is the output? log10(n) returns the logarithm over base 10 for n. pow(x,y) returns x raised to the power of y.

```
int main()
{
    int n, x, y, z;

    n = 2018;

    y = n % 10;
    z = (int)log10(n);
    x = (int)(n / pow(10, z));

    printf("%d%d", y, x);

    return 0;
}
```

Answer: _____.

<Questions 11 to 25 go here>