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Total No. of printed pages = 4

CS 171105

Roll No. of candidate

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## 2019

## B.Tech. 1st Semester End-Term Examination INTRODUCTION TO COMPUTING

(New Regulation) & New Syllabus (w.e.f 2017-18)

Full Marks - 70

Time - Three hours

The figures in the margin indicate full marks for the questions.

Answer question No. 1 and any four from the rest.

1. (a) State True or False:

 $(5\times 1=5)$ 

- (i) Keywords are case sensitive.
- (ii) Shifting once to the left multiplies the number by 2.
- (iii) The modulus operator can only be used with integers.
- (iv) There can be only one default case in the switch-case statement.
- (v) A function can return only one value.

[Turn over

(b) Give the output of the following programs. #include<stdio.h> (i) main() { int a = 4, b = 5; printf("\n %d",(a>b)? a:b); (ii) #include<stdio.h> main() int a = 4, b = 5; float c; c=b/a;printf("\n %f",c); #include<stdio.h> (iii) main(), int a = 4, b = 5, c = 7;

c = a = b;

printf("\n %d",c);

 $(5 \times 1 = 5)$ 

```
(iv) #include<stdio.h>
       main()
       int a = 4;
       if(a<10)
       printf("\n A");
       if(a<20)
       printf("\n B");
       if(a<30)
       printf("\n C");
       #include<stdio.h>
(v)
       main()
       int i = 4;
       do
       { printf("%d",i);
       } while(i>0);
```

- 2. (a) Draw a flow chart to check whether a given input is an even or odd number. (5)
  - (b) Write an algorithm to compute the simple interest. (5)
  - (c) Discuss the various constants in a C program.

(5)

Discuss the various bitwise operators with an 3. (a) (5)example of each. Write the differences between type conversion (b) and type casting. (5)Write a program to find the greatest among (c) (5)three numbers. Using switch case write a program to check 4. (a) whether a given input is a vowel or not. Write a program to find the factorial of a (b) (7)number. Write a program to sort the elements of an 5. (a) array in ascending order. (10)Implement the Binary Search Technique to (b) search the element 5, 23, 6 in the following array. 3, 5, 15, 23, 31, 39, 47, 50. (5)With the help of a program discuss the two ways in 6. which arguments or parameters can be passed to the (15)called function. Without using the standard library function 7. (a) write a program to find the length of a string. (10)Write a program to print the following pattern (b) 1 1 2 2 1 3 (5)3 4 2