

Paper Code: ECS-101/CS-101	Roll No.													

B.Tech.
FIRST SEMESTER EXAMINATION, 2016-17
COMPUTER SYSTEM AND PROGRAMMING IN C

[Time: 3 Hours]

[Max. Marks: 100]

1. Attempt any five parts of the following: - [4x5=20]

- (a) Name any two input and two output devices.
- (b) Differentiate between RAM and ROM.
- (c) What are the important functions of Operating system?
- (d) What is android?
- (e) Draw any four symbols that are used in drawing flowchart. Also write the name and purpose of the symbols.
- (f) $(20)_{10} = (?)_2$
- (g) What do you mean by data types? Explain with the help of examples.

2. Attempt any four parts of the following: - [5x4=20]

- (a) Write down the syntax of conditional operator? Write a statement to print the larger of two numbers using conditional operator.
- (b) What do you understand by library functions?
- (c) Differentiate between for and while loops.
- (d) Write down the syntax and purpose of switch statement.
- (e) Write a program to show the use of break statement.

3. Attempt any four parts of the following: - [5x4=20]

- (a) Write a function to print the sum of digits of a number.
- (b) Differentiate between call by value and call by reference parameter passing techniques. Give examples in support your answer.
- (c) Write a program to calculate the factorial of a number.
- (d) Write down the name, syntax and purpose of four string functions.
- (e) Differentiate between the local and global variable.

4. Attempt any two parts of the following: - [10x2=20]

- (a) Write a program to read and display values of an integer array a[10].
- (b) Write a program to demonstrate the use of nested if structure.
- (c) Write a program to read and display the information about ten employees using structure.

5. Attempt any two parts of the following: - [10x2=20]

- (a) What is a Pointer? How is it declared?
- (b) Explain the different type of modes used to handle files.
- (c) What are macros? Give one example to explain its use.