

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

**B.Tech. (2011 Onwards) (Sem.-1,2)**  
**FUNDAMENTALS OF COMPUTER PROGRAMMING AND IT**  
Subject Code : BTCS-101  
Paper ID : [A1108]

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTION TO CANDIDATES :**

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION - B & C. have FOUR questions each.
3. Attempt any FIVE questions from SECTION B & C carrying EIGHT marks each.
4. Select at least TWO questions from SECTION - B & C.

**SECTION-A**

**1. Write briefly :**

- a. Differentiate between primary memory and secondary memory.
- b. What is mail merge?
- c. What do you mean by the term GUI?
- d. What do you mean by pseudocode? What is its use?
- e. Define token.
- f. Define Expression. Describe in brief the role of precedence and associativity of operators in the evaluation of expressions.
- g. What is the use of continue statement?
- h. Define data abstraction and data encapsulation.
- i. What is the use of public and private keywords?
- j. What are friend functions?

## SECTION-B

2. With the help of a block diagram, describe in detail various components of computer system and their working.
3. Write a detailed note on evolution of Internet and its applications and services.
4. What are flowcharts? Draw a flowchart to check whether a given number is prime or not.
5. What is an operating system? List its various types. Describe in detail various functions of an operating system.

## SECTION-C

6. With the help of an example, describe in detail structure of a C++ program.
7. What do you mean by actual arguments and formal arguments? With the help of examples, describe the use of const argument and default arguments.
8. What do you mean by inheritance? Describe its various types. With the help of an example, describe the use of multilevel inheritance.
9. What are files? Describe various file operations. Explain how error handling during file operations is done.