

B. Tech. (Sem. - 1st)

**FUNDAMENTALS OF COMPUTER PROGRAMMING AND
INFORMATION TECHNOLOGY**

SUBJECT CODE : CS - 101

Paper ID : [A0127]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates :

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Five** questions from Section - B & C.
- 3) Select atleast **Two** questions from Section - B & C.

Section - A

Q1)

(Marks : 2 Each)

- a) Differentiate between PROM and EEPROM.
- b) Explain the difference between WindowsXP and Windows 2003.
- c) How a text can be made superscript and subscript in MS Word?
- d) What is object oriented programming?
- e) Explain the difference between pre - increment and post - increment operators.
- f) What are the characteristics of an object?
- g) What are the header files and what they contain?
- h) What is a dynamic constructor?
- i) What is the purpose of a friend function in C++?
- j) Differentiate between multiple and hierarchical inheritance?

Section - B

(Marks : 8 Each)

- Q2)** Explain different functional components of the computer.
- Q3)** (a) What is the significance of windows firewall? Explain.
(b) Explain various components of windows.
- Q4)** (a) Explain different steps in Mail Merge.
(b) Explain various options of Printing a document.
- Q5)** (a) Explain different data types available in C++.
(b) Write a program in C++ to generate prime number series upto 100.

Section - C

(Marks : 8 Each)

- Q6)** What is operator overloading? How operator overloading is achieved in C++? Explain with an example of a binary operator overloading.
- Q7)** (a) What is a file mode? Discuss various file modes in C++.
(b) Write a program in C++ that reads a text file and creates another file with different name.
- Q8)** (a) Discuss the various applications of internet.
(b) What is Information Technology? Discuss various applications of Information Technology.
- Q9)** Write a note on the following :
- (a) Destructor.
 - (b) Static members.
 - (c) Run - time Polymorphism.
 - (d) Write() and read() functions.

