Roll No. ....

Total No. of Questions : 09]

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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?

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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.

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