Roll No.						Total No. of Pages : 0

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:

- 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 atleast TWO questions from SECTION B &C.

SECTION-A

l. Write short notes on:

- (a) How two dimensional arrays are declared and initialized?
- (b) What are the different types of Computer Languages?
- (c) What is the difference between break and continue statement?
- (d) What is Access Specifier and its use?
- (e) Name various control statements of C++.
- (f) What do you mean by Precedence and Associativity.
- (g) Define the term private and protected Inheritance?
- (h) List the Key features supported by a GUI based Operating system.
- (i) Name various (at least four) standard classes of C++.
- (i) What is Virtual Memory and its use?

SECTION-B

- 2. Discuss in brief the various features provided by any word processor. Also define the terms: Toolbar and Status bar. How can we Activate or Deactivate any toolbar?
- 3. Compare and contrast the terms CD, DVD and Blu-ray disk.
- 4. Briefly explain the term Internet and the ways to connect to Internet. Also discuss the four most popular services of Internet.
- 5. What do you mean by the term Data type? Explain in detail the various Data types supported by C++ along with their memory requirements.

SECTION-C

- 6. What is a Constructor? How is it defined and when is it called? Also discuss various types of constructors used in C++ programs.
- 7. (a) What are Functions? Write a function to find maximum of three numbers.
 - (b) Define the term Pointer. Write a program to compare the two given strings using a pointer.
- 8. (a) Explain how a data Member and member functions of a base class can be accessed by the derived class member functions.
 - (b) What is meant by Membership operator in C++?
- 9. What is Random Access File and how it is defined in C++? Write a program to read students' record such as *name*, *roll no*, *height and weight* from a specified file and to display in sorted order using roll no as a key for sorting.