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Total No. of Questions: 09

B.Tech. (Sem.-1/2)

FUNDAMENTALS OF COMPUTER PROGRAMMING & IT

Subject Code : BTCS-101 (2011 & 2012 Batch)

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.
- 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 briefly:
 - a. Differentiate between RAM and ROM.
 - b. List various functions of word processing software.
 - c. Define algorithm. How is it different from a program?
 - d. What is the use of break statement?
 - e. Differentiate between while loop and do-while loop.
 - f. What are storage classes?
 - g. What are the different ways to initialize string variables?
 - h. What are destructors?
 - i. What do you mean by polymorphism?
 - j. What is the role of streat function?

SECTION-B

- 2. What do you mean by GUI? What are the significant features of GUI based operating system?
- 3. Define algorithm and flowchart. Write an algorithm to check whether a given number is even or not. Draw its flowchart as well.
- 4. Describe in detail four significant features of MS-Word word processing software.
- 5. What are spreadsheets? How are they created? Describe how data in a spreadsheet can be analyzed by using simple graphs like bar charts and line graphs.

SECTION-C

- 6. Describe the following terms:
 - a. Identifiers
 - b. Type modifiers
 - c. Symbolic constants
 - d. Keywords
- 7. Differentiate between iteration and recursion. Write iterative and recursive functions for finding factorial of a number. Illustrate the use of these functions in a program.
- 8. What are the different forms of inheritance supported by C++? Explain them with an example.
- 9. What is file? Write a C++ program to count the number of characters in a given file.