Total No. of Pages: 02							Roll No.
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B.Tech (Sem.-1st&2nd)

FUNDAMENTALS OF COMPUTER PROGRAMMING & IT

Subject Code: BTCS-101 Paper ID: [A1108]

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATE:

Attempt five questions from Part-A and Part-B, selecting atleast two from each part. Question No. I is compulsory.

(2x10=20)

- 1. Give short answers of the following:
 - a. What are the salient features of GUI based operating system?
 - b. What are spreadsheets?
 - c. Differentiate between primary memory and secondary memory?
 - d. What are keywords?
 - e. What are operators? Name the operator in C++ used to allocate a chunk of memory.
 - f. What do you mean by if-else ladder?
 - g. What is recursion? What is its advantage?
 - h. What do you mean by polymorphism?
 - i. What are the different ways to initialize string variables?
 - j. What is the role of stremp function?

PART-A

(8 marks each)

- 2. Explain the working of a computer system and its associated peripherals.
- 3. What is operating system? List and explain its functions.
- 4. Define algorithm. Write an algorithm to check whether a given number is odd or not.
- 5. Describe various features that can be used while creating power point presentations.

PART-B

(8 marks each)

- 6. What are type modifiers? List and explain various type modifiers available in C++.
- 7. Describe with the help of examples various decision making statements available in C++.
- 8. What are the different forms of inheritance supported by C++? Explain them with an example.
- 9. a) What are default arguments? Why are they used?
 - b) Can we have more than one constructor in a class? If yes, explain the need for such a situation?

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