

**M. Sc. (Geoinformatics) SEM-I (CBCS) (2013 Course) : SUMMER - 2019**  
**SUBJECT: FUNDAMENTAL OF PROGRAMMING**

Day : Monday  
Date : 08/04/2019

Time : 10.00 AM TO 01.00 PM  
Max. Marks: 60.

**S-2019-1448**

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**N.B.:**

- 1) Attempt any **FIVE** questions.
  - 2) Figures to the **RIGHT** indicate full marks.
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- Q.1 a)** State Advantages and Limitations of using flowchart. (06)
- b)** The sum of 11101 + 10111 equals \_\_\_\_\_. Show the answer in Decimal Numbering System (06)
- Q.2 a)** Discuss in detail Functions in Programming and its advantages. (06)
- b)** Discuss in detail Classes and Objects by giving any example. (06)
- Q.3 a)** Draw and explain a flowchart that will display the maximum number from 10 numbers accepted from the user. (06)
- b)** What is computer programming? Explain in detail different types of programming languages. (06)
- Q.4 a)** Write a short note on memory variable by giving any example. (06)
- b)** Use of Constructor, Destructor in OOPS. (06)
- Q.5 a)** Write an Algorithm to convert temperature from Fahrenheit to Celsius. (06)
- b)** Explain the concept function Overloading and Overriding by giving example. (06)
- Q.6** Write short notes on (Any **Three**) (12)
- a)** Database and its advantages
  - b)** Exceptions and Errors
  - c)** Heap and Merge
  - d)** ASCII and Unicode
  - e)** Structured Query Language

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