M. SC. (GEOINFORMATICS) SEM-I (CBCS) (2013 COURSE) : SUMMER - 2018
SUBJECT: FUNDAMENTAL OF PROGRAMMING

Day: **Wednesday** | Time: **10.00 AM TO 01.00 PM**
Date: **11/04/2018** | **S-2018-1110** | Max. Marks: 60

N.B.:
1) Attempt any **FIVE** questions.
2) Figures to the right indicate **FULL** marks.
3) Draw diagrams **WHEREVER** necessary.

Q.1 **a)** Explain logical and conditional operators with proper example. **(06)**

b) Draw a flowchart for adding, multiplying and subtracting two integer values. **(06)**

Q.2 **a)** What is flow chart? Explain the different symbols of flow chart. **(06)**

b) What is constructor and Destructor? Why it is called so? **(06)**

Q.3 **a)** What is function? Explain different types of functions with proper example. **(06)**

b) Convert the following Binary to Decimal numbering system. **(06)**
i) 111101 ii) 100111

Q.4 **a)** Draw the block diagram of CPU. Explain the functioning of each block. **(06)**

b) Explain Arrays in detail with proper example. **(06)**

Q.5 **a)** Define the following terms: **(06)**
i) Polymorphism ii) Data abstraction
iii) Inheritance

b) Explain in detail DML, DDL and DCL with proper example. **(06)**

Q.6 Write short notes on any **THREE** of the following: **(12)**

a) Sorting

b) Classes and objects

c) Data types

d) Control and Looping statement

e) Compiler and Interpreter

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