

M. Sc. (Geoinformatics) SEM-I (CBCS) (2013 Course) : WINTER - 2018
SUBJECT: FUNDAMENTAL OF PROGRAMMING

Day: Wednesday
Date: 21/11/2018

W-2018-1239

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

N.B:

- 1) Answer **ANY FIVE** questions.
 - 2) Figures to the **RIGHT** indicate full marks.
 - 3) Draw neat labeled diagrams **WHEREVER** necessary.
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- Q.1** a) Draw a Flow Chart to convert temperature from Fahrenheit to Celsius. **(06)**
b) Explain all logical and relational operators with proper example. **(06)**
- Q.2** a) Explain the fundamental units of a computer with a block diagram. **(06)**
b) What is sorting? Explain different types of sorting with proper example. **(06)**
- Q.3** a) Outline the concept of OOP programming. Explain all the model of OOP in detail. **(06)**
b) What is an Array? Explain different types of Array with proper example and syntax **(06)**
- Q.4** a) Explain all numbering systems in detail with proper example. **(06)**
b) Convert the following: **(06)**
i) $(125)_{10}$ ii) $(11101)_2 + (10111)_2$
- Q.5** a) What are the features and benefits of SQL? Explain DDL, DML and DCL commands. **(06)**
b) Explain all branching and Looping control statement used in programming with proper syntax. **(06)**
- Q.6** Write short notes on: **(ANY THREE)** **(12)**
a) Destructor and Constructor
b) Compiler and Interpreter
c) Data types
d) ASCII and Unicode
e) Overloading and Overriding

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