

**M. Sc. (Geoinformatics) SEM-I (CBCS) (2013 Course) :**

**WINTER - 2017**

**SUBJECT : FUNDAMENTAL OF PROGRAMMING**

Day : **Wednesday**

Date : **22/11/2017**

Time : **10.00 AM TO 01.00 PM**

Max. Marks : 60

**W-2017-0995**

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**N.B.**

- 1) Answer any **FIVE** questions.
  - 2) Figures to the right indicate **FULL** marks.
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**Q.1 a)** What are keywords, data types and variables with respect to programming language? **(06)**

**b)** Explain the important characteristics of Object Oriented Programming. **(06)**

**Q.2 a)** Define Flowchart. What are the symbols used for drawing a flowchart. What are the advantages of drawing a flowchart? **(06)**

**b)** Explain block diagram of Computer in detail with proper diagram. **(06)**

**Q.3 a)** Convert the following: **(06)**

**i)**  $(0.375)_{10}$       **ii)**  $(1001)_2$

**b)** Explain all DML and DDL statements with proper syntax. **(06)**

**Q.4 a)** What is Sorting? Explain different types of sorting with proper examples. **(06)**

**b)** What is Array? Explain different types of array with proper example and syntax. **(06)**

**Q.5 a)** What is Computer Programming? Explain in detail different types of programming languages. **(06)**

**b)** Draw a Flowchart to accept two numbers and find the biggest of them. **(06)**

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

- a)** Classes and Objects
- b)** Discuss Database in detail and its advantages
- c)** Exceptions and Errors
- d)** The sum of  $11101+10111$  equals
- e)** Binary and Decimal numbering system

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