

**M. SC. (Computer Science) SEM – I (Choice Based Credit & Grade System) : WINTER - 2018**

**SUBJECT: PARADIGM OF PROGRAMMING LANGUAGES**

Day: Thursday  
Date: 11/10/2018

Time: 03.00 PM TO 06.00 PM  
Max. Marks: 60

**W-2018-1041**

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**N.B:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labeled diagram **WHEREVER** necessary.
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**Q.1** Describe different types of inheritance. **(15)**

**OR**

Illustration features and need for studying programming languages.

**Q.2 a)** Attempt **ANY ONE** of the following: **(08)**

- i) What is procedure? Explain subprogram with example.
- ii) Describe elements, functions and declaration in functional programming.

**b)** Attempt **ANY ONE** of the following: **(07)**

- i) Illustrate logic programming paradigm with example.
- ii) Explain different if statements with example.

**Q.3** Attempt **ANY THREE** of the following: **(15)**

- a) Explain characteristics of object oriented programming.
- b) Explain database language paradigm with suitable example.
- c) Illustrate different data types in programming languages.
- d) Write effects of environment languages.
- e) Describe parsing with example.

**Q.4** Write short notes on **ANY THREE** of the following: **(15)**

- a) Virtual computer
- b) Event driven programming
- c) Referencing environment
- d) User defined type conversion
- e) Syntax and semantics

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