

**M. SC. (COMPUTER SCIENCE) SEM – I (CHOICE BASED  
CREDIT & GRADE SYSTEM) : SUMMER - 2018  
PARADIGM OF PROGRAMMING LANGUAGES**

Day : **Thursday**  
Date : **12/04/2018**

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

**S-2018-0917**

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** Marks.

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**Q.1** Describe features of object oriented programming. **(15)**

**OR**

Illustrate syntax, semantic and semantic types with their proper example.

**Q.2 A]** Answer **ANY ONE** of the following: **(08)**

- i) Explain types of inheritance with example.
- ii) Describe building blocks of a programming language.

**B]** Answer **ANY ONE** of the following: **(07)**

- i) Explain different features of a good programming languages.
- ii) Illustrate referencing environment using call-by-value and call-by-Reference.

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

- a) Describe parsing with an example.
- b) Explain database language paradigm in brief.
- c) Describe types of if statements.
- d) Write the different characteristics of functional programming.
- e) Explain while and for loop structure with example.

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

- a) Event driven programming
- b) Need for studying programming languages.
- c) Virtual computer
- d) Sub Program
- e) Context free Grammar

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