

**M. SC. (COMPUTER SCIENCE) SEM – I (CHOICE BASED  
CREDIT & GRADE SYSTEM) : WINTER - 2017  
PARADIGM OF PROGRAMMING LANGUAGES**

Day : Thursday  
Date : 26/10/2017

**W-2017-0817**

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

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**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** Marks.
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**Q.1** Describe building blocks of a programming language. **(15)**

**OR**

Illustrate elements, expressions and declaration of functional programming.

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

- i) Explain object based paradigm with example.
- ii) Illustrate elements and benefits of procedural programming.

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

- i) Describe logic programming paradigm with example.
- ii) Explain loop structures with proper example.

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

- a) Explain event driven programming with example.
- b) Illustrate different parameter passing methods.
- c) Explain parsing with example.
- d) Explain characteristics of sub-program.
- e) Write note on polymorphism.

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

- a) Encapsulation
- b) Syntax and semantics
- c) Features of good programming language
- d) Fourth generation language
- e) Database language paradigm

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