

**M. SC. (Computer Science) SEM – I (CBCS 2018 Course) : WINTER -
2018**

SUBJECT : PARADIGM OF PROGRAMMING LANGUAGES

Day : Thursday
Date : 11/10/2018

W-2018-1035

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

N.B.

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the **RIGHT** indicate **FULL** marks.
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Q.1 Describe Imperative paradigm, declarative paradigm and database language (15)
paradigm in detail.

OR

Illustrate features, program structure and control structure in prolog programming.

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

- a) Define procedures. Explain sub-program and subroutines with proper example.
- b) Describe single inheritance using C++ programming.

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

- a) Illustrate various features of a good language.
- b) Explain block structure paradigm with Pascal programming example.

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

- a) Describe different types of programming languages.
- b) Explain syntax and semantics with an example.
- c) Write various data types used in programming languages.
- d) Illustrate features of object oriented programming.
- e) Explain conditional statements with suitable example.

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

- a) Characteristics of functional programming
- b) Call-by-value
- c) Event driven programming
- d) Lexical analysis
- e) Virtual computer

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