M. SC. (Computer Science) SEM – I (Choice Based Credit & Grade System) : SUMMER - 2019
SUBJECT: PARADIGM OF PROGRAMMING LANGUAGES

Day: Wednesday   Time: 03.00 PM TO 06.00 PM

Date: 10/04/2019   **S-2019-1243**   Max. Marks: 60

N.B:

1) All questions are **COMPULSORY**.
2) Figures to the right indicate **FULL** marks.
3) Draw neat and labeled diagram **WHEREVER** necessary.

Q.1 Describe object oriented characteristics and explain object oriented concepts **(15)** in C++ language.

OR

Elaborate building blocks of a programming language.

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

    i) Explain event driven programming with proper example.

    ii) Describe procedure language with features and advantages.

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

    i) Explain referencing environment with example.

    ii) Illustrate logic programming paradigm.

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

    a) Write characteristics of functional programming.

    b) Explain loop structure with proper example.

    c) Explain structure of a computer.

    d) Illustrate various features of a good language.

    e) Describe context free grammar with example.

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

    a) Effects of environments on languages

    b) Parsing

    c) Fourth generation language

    d) Subroutines

    e) Recursive sub program

* * * * *