

**MASTER OF SCIENCE (COMPUTER SCIENCE) (CBCS-2018 COURSE)**  
**M.Sc. (Computer Science) Sem-I :SUMMER- 2022**  
**SUBJECT : PARADIGM OF PROGRAMMING LANGUAGES**

Day : Monday  
Date : 4/7/2022

**S-20034-2022**

Time : 03:00 PM-06:00 PM  
Max. Marks : 60

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the rights indicate **FULL** marks.

**Q.1** What is oops? Explain abstraction, encapsulation, inheritance and polymorphism concepts with example. **(15)**

**OR**

Illustrate with example different building blocks of programming language.

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

- a) Elaborate the concept of parameter passing methods call by value and call by reference with suitable example.
- b) Describe characteristics and elements of functional programming.

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

- a) Describe Declarative paradigm in detail.
- b) Explain concept of virtual computer.

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

- a) Illustrate different features of a good language.
- b) Explain various conditional statements with suitable example.
- c) Elaborate logical programming paradigm with proper example.
- d) Explain lexical analysis with example.
- e) Describe database language paradigm in detail.

**Q.4** Attempt **ANY THREE** of the following: **(15)**

- a) Parsing
- b) Event driven programming
- c) Recursive subprogram
- d) Programming languages
- e) Syntax and semantics.

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