

MASTER OF SCIENCE (COMPUTER SCIENCE) (CBCS-2018 COURSE)
M.Sc. (Computer Science) Sem-I : WINTER :- 2021
SUBJECT: PARADIGM OF PROGRAMMING LANGUAGES

Day : Friday
Date 4/2/2022

W-20034-2021

Time : 02:00 PM-05:00 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 What is object oriented programming? Explain types of inheritance with example. **(15)**

OR

What is procedure? Explain elements, referencing environment and benefits of procedural programming.

Q.2 a) Answer **ANY ONE** of the following: **(08)**
 i) Illustrate looping statements with suitable example.
 ii) Describe building block of a programming language.

 b) Answer **ANY ONE** of the following: **(07)**
 i) Write various features of a good language.
 ii) Explain characteristics, elements and declaration of functional programming.

Q.3 Answer **ANY THREE** of the following: **(15)**
 a) Explain database language paradigm with example.
 b) Describe types of programming languages.
 c) Explain syntax and semantics of programming languages with example.
 d) Describe logical programming paradigm with example.
 e) Explain structure and operation of a computer.

Q.4 Write short notes on **ANY THREE** of the following: **(15)**
 a) Lexical Analysis
 b) Event Driven Programming
 c) Encapsulation and Data Abstraction
 d) Recursive subprogram
 e) Need for studying programming language

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