Day : Friday   Time : 10:00 AM-01:00 PM

Date : 5/8/2022   **S-24015-2022**   Max. Marks : 60

N.B. :
  1) All questions are **COMPULSORY.**
  2) Figures to the right indicate **FULL** marks.
  3) Assume **Suitable** data, if necessary.
  4) Draw neat diagram **WHEREVER** necessary.

Q.1 List out and explain basic elements of Programming Language with example. **(10)**

OR

Q.1 Write a short note on following terms:- **(10)**

  a) Scripting Languages
  b) Event driven programming

Q.2 Define function. Differentiate between functional programming and object – oriented Programming. **(10)**

OR

Q.2 Explain concept of Referential transparency in detail with example. **(10)**

Q.3 Explain computational model of logic programming in detail. **(10)**

OR

Q.3 Write a short note on : **(10)**

  a) Conjunctive Queries
  b) Disjunctive Queries
  c) Existential Queries

Q.4 Define object oriented programming. Explain basic concepts of object oriented programming in details. **(10)**

OR

Q.4 Explain need of interface in Java with the help of example. **(10)**

Q.5 **a)** Write Ruby program to lower case, upper case and capitalizes all the words of given string. **(05)**

  b) Write a Ruby program to sort a strings character alphabetically. **(05)**

OR

Q.5 Explain concept of modules and different features of modules in Haskell in detail with example. **(10)**

Q.6 Explain concept of process communication in detail. **(10)**

OR

Q.6 Write a short note on following : **(10)**

  a) Datatypes in Erlang
  b) List in Erlang

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