I What are the phenomenology of programming language?

Explain about the Faxemation & Fear are common to reastors. 2) What are the characteristic of good programing language? 3) "Part by reference has dangerous consequences in FORTRANS! 9) What are the importance of objections of pronciples of programing Highlight the functional enhancement blought by the precide cade The complexity of programming led to development of program with design notations. If this true, explain with reference with pseudocode. Describe the control Structure of FORTRAN. What are programming domains? How logical programming is different with functional programming? 7.21/ustrate the looping in PORTRAN by wisting a program to find out the square root of the first ten natural numbers.

Describe NAME STRUCTURE of FORTRAN. "Subprograms are implemented using Activation records in FORTRAN Explain with examples. The 4070 & the workhow of londol Flow. Explain briefly & "The Arithematic operators are Overloaded! Explain with Illustrate the looping in PORTRAN by wrating a program to find out the sum claverage of first tended natural numbers. What is the tignificance of dynamic chain of action took record? Explain with examples. Mention Looping in FORTRAN by writing the program to find out the cube root of first 20 natural numbers.

For specific examples where FORTRAN-IV violates the principle of programming languages.

Differentiale BNF SEBNF with the help of sylactic structure of ALGUL-60. ALGUL-60.

major milestone in programming languagi. Justify. 10). Why are naming spectures essential for programming? Explain the harse Spicking of ALGOL-60. D. How ALYOL has changes the way of programmong mefficient 12). Explain the History and Motoration of ALGOL programming.

Also Explain (mention ets fair leve factors. 13) Prepare a note on Control structures, Data Structure, Name Specture & Syntactre specture of ALGOL.

ALGOL follows "Zero-one-infinity" prenceple. Verify of comparing with FORTRAIN. is) Explain different forms of for loop on ALGOL. eb). What are the different searching, techniques in LISP. Explain them with the help of walking down dragram.

Thow cases are handled whate implementing recursive list brocenor? 18) What is LISP? Define the structural Organisation of LISP 4). What is LISP? Explain about car and cor & dreators with 2) How does LISP handle simplicity proncepte?

31) Translate the following expression into LISP.

i) $\frac{1}{2}\sqrt{7r^2-l^2}$ ii). $\frac{-b-\sqrt{b^2-49c}}{9a}$ Write assoc function in LISP to accent the value of a list. How would you handle the case where the requestred attribute is not associated by a 18.4? 33). Differentiate lamong pars by verbe, pars by reference & pars by referentiate CAR and CDR.

Name with switchble example.

34). What is property Lipt? Differentiate CAR and CDR. 35). What is polish notation? How hierarchial sourchures are processed in LISP? 30). Translate the following expression into LISP. (abc)² 4,/s(s-a)(s-b)(s-c) i). $\frac{-6 + \sqrt{b^2 - 4a}}{\frac{1}{2} \sqrt{4a^2 - b^2}}$

Explain an object and class specification is SMALLTALK.
How does class and object are represented programmatically M SMALLTALK? Caplain Message Passing and Returning mechanism is SMALL Briefly explain the following spuctures in LISP. i) The Conditronal Expression ii) The logical Connectivos 111) Mapar and reduce furctions. A) Compare find Constract object Osfen ted programming facilities In ct + and Java. 91) "Optional variables declarations are dangerous in PORTRAN." Explain with swrable example. 42) Explain Recursive in terpreters & Storage Reclamation in LISP. 43). What are the different from of message template in SMALLTALK? 14) Smalltalk belong to new programming paradigm: Explain
in reference to class, object Nobject or ronted Extensions. Translate the following into LISP (-1) R K + K 4). How cases are handled whole romplementing recursive 1st THE COMMON permits alrasing, which is dangerous in PORTRANS Justify the statement 48). How is Activation Record represented is SMALLTALK? Semolar. (Idea of one questions may of Write Short notes On; 7) Class Representation lead to idealarswer to next question) Fi) Descriptive tools in ALGOL Answer four offer knowing about the specific programming languages C iii Nested Scope in BLOCK PORTRAN, ALGOL, LISP & SMALL TAK mention M ASSIGNED GOTO ed to the questions), for eg: Sont write V) Block & Sugre Onto Structure of ALGOL, instead of yours vi) Lamda Expression asked has asked you write about PORTRANT vii) Confour ld rognem viii) User defend function in LISP 1x). Importance of PPL.