2nd year 2nd sem 1st mid R10

PPL

1.	Use of recursion :->Enhances logical clarity
2.	. If the postfix equivalent of the statement if c then x else y is cxy#, then the postfix form amn+mn-ah-# ha-# :-
	1s equivalent to, if a then m+n then if m-n else a-b else b-a.
3.	Extensive non deterministic mechanisms which cover statements as well are provided by -> Algol 68
4.	From the point of view of clarity and efficiency, is preferable:->Application-order evaluation
5	val is a well known:->Data Flow language
6	A recursive function f is defined as follows: E(n)-2 if n=0 is1 2*E(1) + 4*E(2)
٥.	A recursive function f, is defined as follows: $F(n)=2$, if $n=0=m$, if $n=1=2*F(n-1)+4*F(n-2)$, if $n=2$ If the value of F(4) is 88, then the value of m is :->1
7	Which language is case-sensitive?:->C
8.	
	is used in PL/I language as a terminator and in pascal language as a separator.:->Semi-colon
10	FORTRAN does not permit recursion because :->It uses static allocation for storing variables
11	Binding (of an identifier to a value) can occur while:->Invoking a sub-program Which language has no For loop: :->Modula-1
12	The language which prohibit changes to the land in lan
12.	The language which prohibit changes to the loop index within the body of an Haumeration-controlled loop is: :- >Algol 68
13	Loops come in
14	Loops come in principal varieties: :->Two
13.	Which language introduced a mid test or one-and-a-half loop that allows a terminating condition to be tested as many items as desired within the loop.:->Modula 1
16	provides a single learn observation of the same single learn observation observation of the same single learn observation obs
10.	provides a single loop construct that subsumes the properties of more Modern enumeration and logically controlled loops: :->Algol 60
17	
18	Modern For loops reflect the impact of both The lambda keyword is used to introduce Challenges:->Semantic, implementation. :->Function
19	A function in which additional assertation
17.	A function in which additional computation never follows a recursive call: the return value is simply what ever the recursive call returns is called:->Tail-Recursive function
20	Which language do not permit recursion: Fortran 77
21	Continuation support in subpract class 4 a few of a second
~	Continuation support in scheme takes the form of a general purpose function Called abbreviated call/cc::->Call_with_current_continuation.
22	In the event of a nonlocal gots the language involvements:
	In the event of a nonlocal goto, the language implementation must guarantee to Repair the run time stack of
23	subroutine call information. This repair operation is Known as :-> Unwinding
24	Gotos were used fairly often in to terminate the current subroutines: :->Pascal
25	Short circuiting changes the of Boolean expressions: :->Semantics
	In the code below CASE (*potentially complicated expression*) OF : clause-A 2, 7: clause-B 35:
	clause-C 10 : clause-D ELSE clause-E END The elided code fragments (clause-A, clause-B, etc) after the colons and the ELSE are called of CASE statements. :->arms
26	Which language does not use short-circuit evaluation: :->Pascal \(\omega \omeg
27	In which languages does both the THEN closes and the ELGE of the Languages does both the THEN closes and the ELGE of the Languages does both the THEN closes and the ELGE of the Languages does both the THEN closes and the ELGE of the Languages does both the THEN closes and the ELGE of the Languages does both the THEN closes and the ELGE of the Languages does both the THEN closes and the ELGE of the Languages does both the THEN closes and the ELGE of the Languages does both the THEN closes and the ELGE of the Languages does both the THEN closes and the ELGE of the Languages does both the THEN closes and the ELGE of the Languages does both the THEN closes and the ELGE of the Languages does both the THEN closes and the ELGE of the Languages does both the THEN closes and the ELGE of the Languages does be the Language of the Languages does be the Language of the Languages does be the Language of the Lan
27.	In which languages does both the THEN clause and the ELSE clause are defined To contain a single statement: :->Algol 60, Pascal.
28	
	A loop is executed once for every valve in a given Finite set :->enumeration-controlled. In algol 60, as witch is essentially an array of :->labels
30	
50.	Modern case statements are a descendent of the computed statement of Fortran and the construct of
21	Algol 60. :->goto, switch
37.	Clu and ada use and respectively, For "not equal" :-> = and /=
34.	The following code is valid in; Begin a:= if $b < c$ then d else e; a: = begin f(b); g(c) end; g(d); 2+3 End :->algol
22	The first language to make a state of the state of the first language to make a state of the first language
33.	The first language to make orthogonality a principal design goal is :->a Language that implements reference model is :->Haskell

35.	Many of structured control-flow constructs familiar to modern programmers Were pioneered
	by:->algol 60
36.	The language designers debated hotly the merits and evils of gotos Throughout the late and much of the :->1960s and 1970s
37.	Early versions of Fortran mimicked the low-level approach by relying Heavily on statements for most nonprocedural control flow; :->goto
30	
30.	provide mechanisms for both multilevel returns and exceptions, but this Dual support is relatively rare:
20	:->Lisp and Ruby www. Exams adda.com
39.	Case statements were adopted in limited form by and more completely by ::-
10	>Algol 68, Modula 1
40.	The statement was introduced by wirth and Hoare in the algol W [W6HH]: :->case
	In C++, a+b is short for::->a. operator + (b)
	In Ada, a+b is short for: :->"+" (a, b)
43.	In Algol-family languages, function calls consists of the syntax::->my_func(A,B,C)
44.	A potentially complex collection of control constructs encapsulated in a way that Allows it to be treated as a
	single unit, often subject to parameterization is called as : Procedural
	abstraction
45.	The notation that occurs in small talk and also occasionally in Algol-family Language is called; :->Multiword
	infix notation
46.	Lisp uses notation for all functions but places the function name The parentheses: :->prefix,
	inside
47.	Most imperative languages usefunction for binary operators and function
	for unary operators. :->infix, postfix
48.	in a purely functional anguage are said to be Referentially transparent. :->expressions
49.	Which language syntax does not allow unparenthesized form: 2 ada
50.	In FORTRAN, which uses ** for exponentiation, how should we parse a+b*c**d**e/f? :->a+ ((b*(c**
	(d**e)))/f)
51.	Semantic rules attached to the productions of a grammar are used to define the attribute flow of a parse tree. :->context free
52	Semantic rules attached to the productions of a grammar can be used to define the attribute flow of a
	syntax tree.:->tree
53.	A grammar is meant to define (or generate) the trees themselves.:->tree
54.	A grammar is meant to define (generate) a language composed of strings of tokens, where each string is
	the fringe (yield) of a parse tree. Context free
55.	In an, action routines can be embedded at arbitrary points in a production's right-hand side.:->LL
	parsers
56.	grammar associates attributes with each symbol in a grammar, and attribute rules with each
	production.:->attribute,context-free
57.	. In, the error messages are buffered and printed in the program order at the end of compilation.:-
	>multipass compiler
58.	Space for attributes in a compiler can be allocated automatically, or managed explicitly by the writer of
(V)	action routines.:->top-down
59	Space for attributes in a compiler is naturally allocated in parallel with the parse stack.:->bottom-up
60	In an, action routines must follow the production's left corner.:->LR parsers
61	is based on formal logic and was devised as tool for proving the correctness of programs.:->axomatic
01.	semantics $\omega \omega \omega \cdot E \pi a m S add a \cdot Co m$
62.	is a method of describing the meaning of language constructs in terms of their effects on an ideal
	machine.:->operational semantics
63	L-attributed grammars are a of S-attributed grammars. :->proper superset
64	In I -attributed grammar its attributes can be evaluated by visiting the mades of the name to its its
UT.	In L-attributed grammar, its attributes can be evaluated by visiting the nodes of the parse tree in a single,
65.	For a parser with an grammar, the obvious approach is to maintain an attribute stack that directly
	mirrors the parse stack.:->bottom-up,S-attributed

66.	A translator that interleaves semantic analysis and code generation with parsing is said to be:->one-pass compiler
67.	In, mathematical objects are used to represent the meanings of language constructs. :->denotational semantics
68.	In a grammar we should need to pass symbol table information into and out of productions through
	inherited and synthesized attributes.:->pure attribute
	In both families of parsers, it is common for some of the contextual information for action routines to be kept in:->global variables \widetawarrangle \widetawarr
70.	For a parser with an grammar, there are two principal options for space management. One is
	automatic and other is lower space overhead.:->top-down,L-attributed
71.	An attribute grammar is if it never leads to a parse tree in which there are cycles in the attribute flow
	graph.:->noncircular
72.	attributes pass semantic information down and across a tree. :->Inherited attributes
73.	attributes are synthesized attributes of leaf nodes whose values are determined outside the parse tree. :-
	>Intrinsic attributes
74.	attributes are used to pass information up a parse tree. :->Synthesized attributes
75.	Both context free grammars and attribute grammars are that is, they define a set of valid trees, but
	they don't say how to build or decorate them. :->declarative
76.	An attribute grammar is if no attribute, in any parse tree, ever depends (transitively) on itself. :-
	>noncircular
77.	An attribute grammar isif attributes are guaranteed to converge to a unique value .:->circular
78.	Better performance for noncircular grammars, may be achieved by that tailors the evaluation order to the
	structure of a given parse tree.:->dynamic scheme
79.	fastest translation schemes, which are based on an analysis of the structure of the attribute grammar
	itself, and then applied mechanically to any tree arising from the grammar. :->static scheme
80.	An algorithm that decorates parse trees by invoking the rules of an attribute grammar in an order that respects
	the tree's attribute flow is called a :->translation scheme
81.	Compile-time algorithms that predict run-time behavior are known as analysis. :->static
82.	Runtime overhead of dynamic checks is accepted in languages like :-> SmallTalk and Lisp
83.	Type checking is static and precise in languages like :->Ada,C and ML
84.	A postcondition, specified once in the header of a subroutine, will be checked not only at the end of
	the subroutine's text, but at every return statement as well, automatically. :->Euclid
85.	analysis determines when all references to a value will be confined to a given context, allowing it to be
	allocated on the stack instead of the heap, or to be accessed without locks.:->escape
86.	analysis determines when a variable in an object-oriented language is guaranteed to have a certain
	subtype, so that its methods can be called without dynamic dispatch. :->subtype
87.	analysis determines when values can be safely cached in registers, computed "out of order," or
	accessed by concurrent threads.:->alias
88.	A compiler is said to be if it applies optimizations only when it can guarantee that they will be both safe
	and effective :->conservative
89.	part of compiler is a recognizer for the language the compiler translates. :->syntax analysis
90.	Copy rules and semantic function calls are the only two kinds of permissible rules in :-> Attribute
	grammars
91.	Which interface defines the boundary between front end and back end of compiler?:->interface between
	semantic and intermediate code generator The annotations of a parse tree are known as :->attributes
92.	The annotations of a parse tree are known as :->attributes
93.	Compiler enforces static semantic rules at :->compile time
94.	Syntax of a language is described by :-> Context-free grammar
95.	for loops are expected to be true before and after every iteration .:->invariant
96.	is a condition that is expected to be true at all "clean points" of a given body of code. :->invariant
97.	is a statement that a specified condition is expected to be true when execution reaches a certain point in
	the code. :->assertion
98.	In which programming language, a programmer can specify an invariant on the data inside a class. :->Eiffel
99.	is expected to be true at the end of subroutines, :->nostcondition

100.	is expected to be true at the beginning subroutines.:->precondition
101.	Which of the following problems are iterative, rather than recursive in nature?:->Simplex method for
	ng a linear programming problem www. Ixams adda com
102.	Which can be correctly identified to be pascal tokens without look-ahead scanning :->:=
103.	In which cases, is it possible to obtain different results for call-by-reference and call-by-name
paran	neters passing? :->Passing an expression as a parameter
104.	evaluates an arithmetic expression, the same way as a calculator :->APL
105.	At which time we can resolve intermediate references:->Link time
106.	The principle that a function can always be replaced by its value without changing the meaning is called.
	ferential transparency
107.	Which is not dangling reference? :->Accessing a variable that is declared and initialized
108.	The default binding in the language with static scoping is :-> Deep Binding
109.	The early binding of referencing environment is known as :-> Deep Binding
110. 111.	The default binding in the languages with dynamic scoping is:->Shallow Binding
111.	The binding that is generally the default in languages with static scoping is :->deep binding
	The late binding of referencing environment of a subroutine that has been passed as a parameter is n as:->shallow binding
113.	4시 BELICES NEW HOLD HEAD AND SERVED HEAD AND A
	rules specify that the referencing environment depends on the lexical nesting
114.	ogram blocks in which names are declared:->Static scope rules Nested subroutines are scopes in most Algol family languages:->Open
115.	FORTRAN 95 allows upto characters in its name ->31
116.	Language designed to support large programs must provide: Separate Compilation
117.	The process by which a compiler automatically converts a value of one type into a value of one type into
	the process by which a complicit automatically converts a value of one type into a value of one type into a context :->Coercion
118.	A static chain is a chain of static links that connect certain activation record instances in the
	:->Stack
119.	Static scoping is a central feature of the language:->Algol 60
120.	are useful as aids to readability and program reliability :->Named constants
121.	The bindings between names and objects can be determined at compile time by examining the text of
progr	am, without consideration of flow of control at run time, in the languages with
scopi	ng:->Static
122.	Which of the language is statically scoped:->C
123.	The heap is divided into one for each standard size:->Pools
124.	Intermediate values produced in complex calculations are:->Temporaries
125.	How to divide the effort among programmers in such a way that work can proceed on multiple *******
simu	taneously is a major challenge in :->Construction of any large body of software
126.	A name-to-object binding that is hidden by a nested declaration of the same name is said to have a
107	in its scope:->Hole
127.	The ability to nest subroutines inside each other is not a feature in the language:-
128.	alltalk
128.	In which language we do not find modules:->Algol 60
	A module does not allows a collection of objects-subroutines, variables, types and so on to be
130.	osulated in such a way that :->Objects outside are visible to each other Modules in clu are called as :->Clusters
131.	The programming language that supports both functional and imperative programming is
151.	:->ML
132.	In java script and PHP, the binding of a variable to a type is:->Dynamic
133.	In perl any name that begins with % is a:->Hash structure
134.	In perl any name that begins with \$ is a :->Scalar
135.	Which language is not strongly typed:->Fortran 95
136.	Explicit heap dynamic variables are often used for dynamic structures, such as that
neen	to grow and/or shrink during execution:->Linked lists
137.	to grow and/or shrink during execution:->Linked lists The storage binding of which variables are created when their declaration statements are elaborated, but

138. 139.	A binding to an object that is no longer live is called:->Dangling reference scoping is based on the calling sequence of subprograms, not on their spatial
	ionship to each other: >Dynamic
140.	The scope of variables is not dynamic in :->Algol 60 \www. Escams adda. com
141.	Heap allocation is required for languages that:->Support dynamic data structures
142.	The time at which any implementation decision is made is called as:->Binding time
143.	Aliasing is a situation where:->Two commands with different names share the same code
144.	The period of time between an allocation and is subsequent disposal is called:->Life time
145.	A call to a library sub program is bound to the sub program code at::->Link time
146.	The time at which the programmers, choose algorithms, data structures and names is :->Program
	ing time
147.	For which of the following application will you prefer a co-routine to a subroutine? :->Simulation of
	ti-processing
148.	Programming languages designed since the require explicit declarations of
	ariables.:->Mid-1960's
149.	A binding is dynamic if it first occurs during or can change in course of
	gram execution :->run time
150.	A binding is static if it first occurs before
	ughout program execution.:->run time
151.	Which of the following is true about reliability? Readability and writability influence reliability
152.	Languages designed around the prevalent computer architecture, called the von Neumann architecture
	called as :->Imperative Languages
153.	Which of the following are von-Neuman languages? :->C, Ada, Fortran
154.	is the purest of the object-oriented languages. : Smalltalk
155.	Pure LISP has only two kinds of data structures: atoms and :->Lists
156.	language support a range type in its Switch-Case statement :->Ada
157.	Aliasing is :->Having two or more distinct referencing methods or names for the same memory cell
	alled aliasing
158.	is the ability to define and then use complicated structures or operations that allow many of the
	ails to be ignored.:->abstraction
159.	IPL stands for :->Information Processing Language
160.	Internally lists are usually stored as :->Single-linked list structure
161.	Regular expressions and context-free grammars are:->Language generator
162.	Any set of strings that can be defined if we add recursion is called a:->context-free language
163.	A parser is a concrete realization of a :->Deterministic Push Down Automaton
164.	A scanner is a hat recognizes the tokens of a programming language.:->Deterministic Finite
	tomaton
165.	Which scripting language is developed by Netscape for use in both Web server and browsers?:->Java
Scr	
166.	Which language is used widely for Artificial Intelligence Application? :->LISP
167.	Scanners and parsers are :->Language recognizers
168.	Which was the first high-level language developed for business purpose? :->COBOL
169.	Which was the first language for scientific applications? :->FORTRAN
170.	Which language is developed to produce business reports? :->RPG
171.	The sentences of the language are generated through a sequence of applications of the rules, beginning
	h a special nonterminal of the grammar called the:->Start Symbol
172.	A BNF description or grammar, is simply a collection of :->Rules
173.	In BNF grammar, the lexemes and tokens of the rules are called:->Terminals
173.	The abstractions in a BNF description, or grammar, are called:->Non terminals
174.	is a language that is used to describe another language.:->Meta Language
176.	One feature of grammars is, they describe the hierarchial syntactic structure of the sentences of the
	guages. These hierarchial structures are called:->Parse Trees
177.	Each of the strings in the derivation is called :->Sentential form
178.	The brackets, braces and parentheses in the EBNF are :->metasymbols

179.	When a grammar rule has its LHS appearing at the right end of the RHS, the rule is said to be
	ght recursive www. Exams adda. Com
180.	When a grammar rule has its LHS also appearing at the beginning of its RHS, the rule is said to
be_	:->left recursive
181.	What are functional programming languages? :->Lisp/Scheme, ML, Haskell
182.	Find out the declarative programming languages from the following::->Lisp/Scheme, Prolog
183.	B Programming Language is designed by :->Ken Thompson
184.	Linux, the leading open source operating system is written in :->C
185.	The internal codes are called :->tokens
186.	The character groupings are called :->lexemes
187.	The phase of the compiler collects characters into logical groupings and assigns internal codes to
	pings according to their structure.:->Lexical analyser
188.	Which of the following is a device that can be used to generate the sentences of a language?
	nguage generator
189.	A sentence generation is called a :->derivation
190.	Tokens are usually coded as values for readability of lexical and syntax analyzers :->integer
191.	Translating high level language instructions to assembly language instructions or machine language
instr	uctions is the job of the system program known as :->compiler
192.	Translating mnemonics to machine languague instructions is the job of the system program known
as	:->assembler
193.	Assembly Language instructions are designed with correspondence between mnemonics and
	hine language instructions. :->one to one
194.	What is MIPS R4000? :->Microprocessor
195.	Prolog is good for :->reasoning about logical relationships about data
196.	C is good for :->low-level systems programming
197.	Lisp is good for :->manipulating symbolic data and complex data structures
198.	Logo is popular among :->Novice users
199.	In a formal mathematical sense a language is: -> Turing equivalent
200.	Snobol and Icon are good for :->manipulating character strings
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