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CS606 Solved Grand Quiz 2020

Question No 1

LL(1) parsing is called _____ parsing.

Select Correct Option

- ✓ **Predictive**.....(For More Visit VUStudents.pk)
- ✓ Non-predictive
- ✓ Post-predictive
- ✓ Post determine

Question No 2

One kind of predictive parser is the _____.

Select Correct Option

- ✓ **Recursive descent parser**.....(For More Visit VUStudents.pk)
- ✓ Bottom-up parser
- ✓ Natural parser
- ✓ Multilingual parser

Question No 3

Front-end of a two pass compiler consists of _____.

Select Correct Option

- ✓ Code optimizer
- ✓ **Scanner**.....(For More Visit VUStudents.pk)
- ✓ Parser
- ✓ Assembler

Question No 4

The algorithm for _____ conversion is called Thompson's Construction.

Select Correct Option

- ✓ DFA to RE
- ✓ **RE to DFA**.....(For More Visit VUStudents.pk)
- ✓ RE to NFA
- ✓ CFG to NFA



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Question No 5

_____ convert the relocatable machine into absolute machine code by linking library and relocatable object files.

Select Correct Option

- ✓ Assembler
- ✓ **Loader/link editor**.....([For More Visit VUStudents.pk](http://VUStudents.pk))
- ✓ Compiler
- ✓ Preprocessor

Question No 6

The _____ parser uses a stack to hold the frontier.

Select Correct Option

- ✓ Top-down
- ✓ **Bottom-up**.....([For More Visit VUStudents.pk](http://VUStudents.pk))
- ✓ Predicative
- ✓ LL(1) parsers

Question No 7

_____ is the process of discovering a derivation for some sentence of a language.

Select Correct Option

- ✓ Compiling
- ✓ Scanning
- ✓ **Parsing**.....([For More Visit VUStudents.pk](http://VUStudents.pk))
- ✓ Interpretation

Question No 8

A _____ accepts a string if we can follow transitions labeled with characters in the string from start state to some accepting state.

Select Correct Option

- ✓ **Finite automata**.....([For More Visit VUStudents.pk](http://VUStudents.pk))
- ✓ Regular expression
- ✓ Regular language
- ✓ Acceptor





Question No 9

The general idea behind NFA-to-DFA construction is that each _____ state corresponds to a set of _____ states.

Select Correct Option

- ✓ **DFA, NFA**.....([For More Visit VUStudents.pk](http://VUStudents.pk))
- ✓ NFA, DFA
- ✓ NFA, FA
- ✓ CFG, NFA

Question No 10

Optimal registers allocation is _____ problem.

Select Correct Option

- ✓ NP-hard
- ✓ **NP-complete**.....([For More Visit VUStudents.pk](http://VUStudents.pk))
- ✓ Polynomial complete
- ✓ Multinomial complete

Question No 11

Majority of the algorithms employed in the back-end are _____.

Select Correct Option

- ✓ Polynomial time
- ✓ NP-Complete
- ✓ **NP**.....([For More Visit VUStudents.pk](http://VUStudents.pk))
- ✓ None of the given

Question No 12

In predictive parsing table, the rows are _____.

Select Correct Option

- ✓ **Non-terminals**.....([For More Visit VUStudents.pk](http://VUStudents.pk))
- ✓ Terminals
- ✓ Both non-terminals and terminals
- ✓ Neither non-terminals nor terminals





Question No 13

Predictive parser accepts _____ grammars.

Select Correct Option

- ✓ LL(n+)
- ✓ LL(j-)
- ✓ **LL(k)**(For More Visit VUStudents.pk)
- ✓ LL(K++)

Question No 14

_____ and _____ actions are used by bottom-up parsing.

Select Correct Option

- ✓ Break and reduce
- ✓ Shift and break
- ✓ **Shift and reduce**(For More Visit VUStudents.pk)
- ✓ Shift and expand

Question No 15

If the right-hand side of a production has k symbols, it has _____ placeholder positions.

Select Correct Option

- ✓ k
- ✓ **k+1**(For More Visit VUStudents.pk)
- ✓ k+2
- ✓ k+3

Question No 16

Lexical analyzer function is not _____.

Select Correct Option

- ✓ Removing white space
- ✓ Removing constants, identifies and keywords
- ✓ **Removing comments**(For More Visit VUStudents.pk)
- ✓ Register allocation





Question No 17

Reduce action _____ zero or more symbols from the stack.

Select Correct Option

- ✓ Pushes
- ✓ Pops
- ✓ **Both pushes and pops**.....([For More Visit VUStudents.pk](http://VUStudents.pk))
- ✓ Adds

Question No 18

Parser determines if the input is _____ well formed.

Select Correct Option

- ✓ Programmatically
- ✓ Logically
- ✓ **Syntactically**.....([For More Visit VUStudents.pk](http://VUStudents.pk))
- ✓ Mechanically

Question No 19

Grammar with the _____ property is called predictive grammar.

Select Correct Option

- ✓ LL(3)
- ✓ LL(2)
- ✓ **LL(1)**.....([For More Visit VUStudents.pk](http://VUStudents.pk))
- ✓ LL(n+)

Question No 20

The executable code typically runs as a _____ in an Operating System Environment.

Select Correct Option

- ✓ **Process**.....([For More Visit VUStudents.pk](http://VUStudents.pk))
- ✓ Threads
- ✓ Routine
- ✓ Function





Question No 21

In a transition table cells of the table contain the _____ state.

Select Correct Option

- ✓ Reject State
- ✓ **Next State**.....([For More Visit VUStudents.pk](http://VUStudents.pk))
- ✓ Previous State
- ✓ Same State

Question No 22

In parser the two LL stand(s) for _____.

Select Correct Option

- ✓ Left-to-right scan of input
- ✓ Left-most derivation
- ✓ **Left-to-right scan of input and left-most derivation**
- ✓ Right to left scan of input

Question No 23

The _____ builds intermediate Representation (IR) for source program.

Select Correct Option

- ✓ Scanner
- ✓ **Parser**.....([For More Visit VUStudents.pk](http://VUStudents.pk))
- ✓ Compiler
- ✓ Loader

Question No 24

Left factoring of a grammar is done to save the parser from _____.

Select Correct Option

- ✓ Location tracking
- ✓ **Front tracking**.....([For More Visit VUStudents.pk](http://VUStudents.pk))
- ✓ Back tracking
- ✓ Random tracking





Question No 25

In Flex specification file different sections are separated by _____.

Select Correct Option

- ☒ %%.....(For More Visit VUStudents.pk)
- ☐ &&
- ☐ ##
- ☐ \\\

Question No 26

Left factoring of a grammar is done to save the parser from _____.

Select Correct Option

- ☐ Location tracking
- ☐ Front tracking
- ☒ Back tracking.....(For More Visit VUStudents.pk)
- ☐ Random tracking

Question No 27

Lexer and scanner are _____ phase of compiler.

Select Correct Option

- ☒ Same.....(For More Visit VUStudents.pk)
- ☐ Different
- ☐ Backend
- ☐ Middle end

Question No 28

Back End of two-pass compiler uses _____ algorithm.

Select Correct Option

- ☐ $O(n)$
- ☐ $(n \log n)$
- ☒ NP Complete.....(For More Visit VUStudents.pk)
- ☐ $O(n^2)$





Question No 29

The _____ contains a lot of unneeded information.

Select Correct Option

- ✓ **Parse tree**.....(For More Visit VUStudents.pk)
- ✓ Abstract syntax tree
- ✓ Complete tree
- ✓ Abstract syntax tree

Question No 30

A _____ start at the leaves and grows toward root of the parse tree.

Select Correct Option

- ✓ Top-down parser
- ✓ **Bottom-up parser**.....(For More Visit VUStudents.pk)
- ✓ Vertical parser
- ✓ Horizontal parser

THE END

