

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future
CORRECT ANSWER SOLVED BY HADI
EMAIL: hadirajputofficial@gmail.com
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TEAM HADI(VU LAHORE)

MID TERM PAST PAPER

We Deal All Kind of VU Project
(PHP, .NET, ANDROID, PYTHON)

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WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



Question # 1 of 30 (Start time: 08:47:53 PM, 26 December 2020)

Total Marks: 1

Primary goal of the _____ is to reduce running time of the compiled code.

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Select the correct option

☐	Front end
☐	Back end
☒	Middle end
☐	Finite Automata

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Question # 2 of 30 (Start time: 08:49:07 PM, 26 December 2020)

Total Marks: 1

Typical compilation means programs written in high-level languages to low-level _____

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Select the correct option

- | | | |
|----------------------------------|--------------------------------|--|
| ☒ | Object code | |
| ☐ | Byted code | |
| ☐ | Unicode | |
| ☐ | Both Object Code and byte code | |

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Question # 3 of 30 (Start time: 08:49:38 PM, 26 December 2020)

Total Marks: 1

_____ are the most popular for specifying tokens.

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Select the correct option

☐	Common languages
☒	Regular Languages
☐	English languages
☐	Difficult languages

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Question # 4 of 30 (Start time: 08:50:10 PM, 26 December 2020)

Total Marks: 1

In the Parse trees the interior nodes contain the _____ used during the derivation.

Select the correct option

☐	Terminals
☒	Non-terminals
☐	Expressions
☐	Leaf nodes

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Question # 5 of 30 (Start time: 08:50:55 PM, 26 December 2020)

Total Mark

The top-down parsing algorithm proceeds by constructing the _____ node of the parse tree.

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Select the correct option

☒	Root
☐	Child
☐	Leaf node
☐	Kid node

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Question # 6 of 30 (Start time: 08:52:14 PM, 26 December 2020)

Total Marks: 1

An important component of semantic analysis is _____.

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Select the correct option

☐	Code checking
☒	Type checking
☐	Flush checking
☐	Random checking

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Question # 7 of 30 (Start time: 08:52:38 PM, 26 December 2020)

Total Marks:

NFA is _____ to implement as compared to DFA.

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Select the correct option

☐	easy	
☒	Difficult	
☐	Neither easy nor difficult	
☐	Impossible	

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Question # 9 of 30 (Start time: 08:57:57 PM, 26 December 2020)

Total Marks: 1

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

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Select the 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	

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Question # 14 of 30 (Start time: 09:03:29 PM, 26 December 2020)

Total Marks: 1

We can get an LL(1) grammar by _____.

Select the correct option

- | | | |
|----------------------------------|--|--|
| ☐ | Removing left recurrence | |
| ☐ | Applying left factoring | |
| ☒ | Removing left recurrence and Applying left factoring | |
| ☐ | Applying left recurrence | |

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Question # 15 of 30 (Start time: 09:04:07 PM, 26 December 2020)

Total Marks: 1

If a _____ picks the wrong production, it may need to backtrack.

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Select the correct option

☐	Scanner
☐	Bottom-up parser
☒	Top-down parser
☐	Optimizer

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Question # 17 of 30 (Start time: 09:06:00 PM, 26 December 2020)

Total Marks: 1

_____ always gives a tree like structure as output

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Select the correct option

☐	Scanner
☐	Optimizer
☒	Parser
☐	Assembler

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Question # 18 of 30 (Start time: 09:06:43 PM, 26 December 2020)

Total Marks: 1

_____ phase which supports macro substitution and conditional compilation.

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Select the correct option

☒	Semantic
☐	Syntax
☐	Preprocessing
☐	Postprocessing

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Question # 20 of 30 (Start time: 09:08:19 PM, 26 December 2020)

Total Marks: 1

Front end of two pass compiler takes _____ as input.

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Select the correct option

☒	Source code
☐	Intermediate Representation (IR)
☐	Machine Code
☐	Machine code

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Question # 21 of 30 (Start time: 09:08:40 PM, 26 December 2020)

Total Marks: 1

The _____ contains a lot of unneeded information.

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Select the correct option

☒	Parse tree	
☐	Abstract syntax tree	
☐	Complete tree	
☐	Abstract syntax tree	

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Question # 23 of 30 (Start time: 09:10:22 PM, 26 December 2020)

Total Marks: 1

The scanner takes _____ as input and maps the character stream into "words" that are the basic unit of syntax.

Select the correct option

☐	Words
☒	Program
☐	Sentences
☐	tokens

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Question # 25 of 30 (Start time: 09:12:00 PM, 26 December 2020)

Total Marks: 1

A _____ starts at the root of the parse tree and grows towards leaves.

Select the correct option

☒	Top-down parser
☐	Bottom-up parser
☐	Vertical parser
☐	Horizontal parser

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Question # 26 of 30 (Start time: 09:12:36 PM, 26 December 2020)

Total Marks:

_____decides which values to keep in registers in order to avoid memory access.

Select the correct option

☒	Back end
☐	Front end
☐	Compiler
☐	Scanner

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Question # 27 of 30 (Start time: 09:13:27 PM, 26 December 2020)

Total Marks: 1

Flex generates lexical analyzer in _____

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Select the correct option

- | | |
|----------------------------------|----------|
| ☒ | C or C++ |
| ☐ | C |
| ☐ | C++ |
| ☐ | Java |

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Question # 28 of 30 (Start time: 09:14:12 PM, 26 December 2020)

Total Marks: 1

Which one is NOT the Role of Run-Time System?

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Select the correct option

☐	Memory management
☐	Garbage collection
☐	Run-time type checking
☒	Syntax analysis

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Question # 29 of 30 (Start time: 09:15:44 PM, 26 December 2020)

Total Marks: 1

_____ are one kind of intermediate representation (IR).

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Select the correct option

- | | | |
|----------------------------------|----------------------|--|
| ☐ | Parse tree | |
| ☒ | Abstract syntax tree | |
| ☐ | Binary tree | |
| ☐ | Complete tree | |

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Question # 30 of 30 (Start time: 09:16:19 PM, 26 December 2020)

Total Marks:

Both leftmost and rightmost derivations give the _____ because the grammar directly encodes the desired precedence.

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Select the correct option

☐ Different expression☐ Reduced expression☒ Same expression☐ Expanded expression

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Question # 23 of 30 (Start time: 09:10:22 PM, 26 December 2020)

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☒	Program
☐	Sentences
☐	tokens

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Question # 27 of 30 (Start time: 09:13:27 PM, 26 December 2020)

Total Marks: 1

Flex generates lexical analyzer in _____

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Select the correct option

- | | |
|----------------------------------|----------|
| ☒ | C or C++ |
| ☐ | C |
| ☐ | C++ |
| ☐ | Java |

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☐	Machine Code
☐	Machine code

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☐	Complete tree	
☐	Abstract syntax tree	

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Question # 25 of 30 (Start time: 09:12:00 PM, 26 December 2020)

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☐	Horizontal parser

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Question # 26 of 30 (Start time: 09:12:36 PM, 26 December 2020)

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☐	Front end
☐	Compiler
☐	Scanner

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