

VIRTUAL UNIVERSITY OF PAKISTAN

A Good Education is a Foundation For a Better Future

CORRECT ANSWER SOLVED BY HADI
EMAIL: hadirajputofficial@gmail.com
WHATSAPP& CALL: 03087122922

TEAM HADI(VU LAHORE)

MID TERM PAST PAPER

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

MADE AND SOLVED BY HADI

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.



WhatsApp: 03087122922



FACEBOOK ID: <https://www.facebook.com/hadipastpapers/>

Best of luck!



Question No : 1 of 26

Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

- ☐ Object code
- ☐ Byted code
- ☐ Unicode
- ☐ Object Code and byte code



Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

MADE BY HA

Question No : 2 of 26

Marks: 1 (Budgeted Time 1 Min)

In compilation process, Hierarchical analysis is also called _____.

Answer (Please select your correct option)

- ☐ Parsing
- ☐ Syntax analysis.
- ☐ Parsing and Syntax analysis
- ☐ None of given

Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

MADE BY HADI

Question No : 3 of 26

Marks: 1 (Budgeted Time 1 Min)

IR (Intermediate Representation) stores the value of its operand in _____.

Answer (Please select your correct option)

☐ Registers



Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

☐ Memory

☐ Hard disk

☐ None Of given

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 0308 7122 922 (Team Hadi Lahore)

Question No : 4 of 26

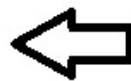
Marks: 1 (Budgeted Time 1 Min)

A lexeme is a sequence of characters in the source program that is matched by the pattern for a _____.

no any lexeme
word available in
book

Answer (Please select your correct option)

- ☐ Linker
- ☐ Token
- ☐ Control flow
- ☐ None of given



Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lah

Question No : 5 of 26

Marks: 1 (Budgeted Time 1 Min)

Parsers take ____ as input from lexical analyzer.

Answer (Please select your correct option)

☐ Linker

☐ Token

☐ Instruction

☐ None of the given



Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 0308 7122 922 (Team Hadi Lahore)

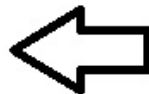
Question No : 6 of 26

Marks: 1 (Budgeted Time 1 Min)

What kind of abstract machine can recognize strings in a regular set?

Answer (Please select your correct option)

☐ DFA



Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

☐ NFA

☐ PDA

☐ None of the given

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 0308 7122 922 (Team Hadi Lahore)

Question No : 7 of 26

Marks: 1 (Budgeted Time 1 Min)

In multi pass compiler, during the first pass it gathers information about _____.

Answer (Please select your correct option)

- ☐ Declaration
- ☐ Bindings
- ☐ Static information
- ☐ None of the given



Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

MADE BY HAD

Question No : 8 of 26

Marks: 1 (Budgeted Time 1 Min)

In DFA minimization, we construct one _____ for each group of states from the initial DFA.

Answer (Please select your correct option)

- ☐ State
- ☐ NFA
- ☐ PDA
- ☐ None of given



Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 0308 7122 922 (Team Hadi Lahore)

Question No : 9 of 26

Marks: 1 (Budgeted Time 1 Min)

_____ (Lexical Analyzer generator), is written in Java

page : 26 hanouts

Answer (Please select your correct option)

- ☐ Flex
- ☐ Jlex
- ☐ Complex
- ☐ None of given



Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

Question No : 10 of 26

Marks: 1 (Budgeted Time 1 Min)

In Flex specification file, different sections are separated by _____ .

Answer (Please select your correct option)

☐ %%



Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

☐ &&

☐ ##

☐ None of given

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 0308 7122 922 (Team Hadi Lahore)

Question No : 11 of 26

Marks: 1 (Budgeted Time 1 Min)

Recursive ____ parsing is done for LL(1) grammar.

Answer (Please select your correct option)

☐ Decent

☐ Ascent

☐ Forward

☐ None of the given



Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

Question No : 12 of 26

Marks: 1 (Budgeted Time 1 Min)

Alternative of the backtrack in parser is Look ahead symbol in _____

Answer (Please select your correct option)

- ☐ Input
- ☐ Output
- ☐ Input and Output
- ☐ None of the given.



Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

MADE BY HADI

Email: hadiraiputofficial@gmail.com Whatsapp: 0308 7122 922 (Team Hadi Lahore)

Question No : 13 of 26

Marks: 1 (Budgeted Time 1 Min)

Parser takes tokens from scanner and tries to generate _____

Answer (Please select your correct option)

- ☐ Binary Search tree
- ☐ Parse tree.
- ☐ Binary Search tree and Parse tree.
- ☐ None of the given



Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

Question No : 14 of 26

Marks: 1 (Budgeted Time 1 Min)

In predictive parsing table, the rows represents _____.

Answer (Please select your correct option)

- ☐ Terminals
- ☐ Both non-terminal and terminals
- ☐ Non-terminals
- ☐ None of the given



Correct Answer Solved By Hadi

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 0308 7122 922 (Team Hadi Lahore)

Question No : 15 of 26

Marks: 1 (Budgeted Time 1 Min)

In LL(1) parsing algorithm, ____ contains a sequence of grammar symbols.

Answer (Please select your correct option)

- ☐ Stack
- ☐ Link List
- ☐ Array
- ☐ None of the given.



Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 0308 7122 922 (Team Hadi Lahore)

Question No : 16 of 26

Marks: 1 (Budgeted Time 1 Min)

Consider the grammar

$$A \rightarrow B C D$$

$$B \rightarrow h B \mid \varepsilon$$

$$C \rightarrow C g \mid g \mid C h \mid i$$

First if A is

Answer (Please select your correct option)

☐ h, g, i



Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

☐ g

☐ h

☐ None of the given.

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

Question No : 17 of 26

Marks: 1 (Budgeted Time 1 Min)

Consider the grammar

$A \rightarrow B C D$

$B \rightarrow h B \mid \varepsilon$

$C \rightarrow C g \mid g \mid C h \mid i$

if first of C is

Answer (Please select your correct option)

☐ g, i

☐ g

☐ h, i

☐ None of the given.



Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

Question No : 18 of 26

Marks: 1 (Budgeted Time 1 Min)

Bottom-up parsing uses only _____ kinds of actions.

Answer (Please select your correct option)

- ☐ Two
- ☐ Three
- ☐ Four
- ☐ Five
- Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 0308 7122 922 (Team Hadi Lahore)

Question No : 19 of 26

Marks: 1 (Budgeted Time 1 Min)

The shift action _____ a terminal on the stack.

Answer (Please select your correct option)

- ☐ Pushes
- ☐ Pops
- ☐ Both push and pops
- ☐ None of the given

Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306



MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 0308 7122 922 (Team Hadi Lahore)

Question No : 20 of 26

Marks: 1 (Budgeted Time 1 Min)

Reduce action _____ zero or more symbols from the stack

Answer (Please select your correct option)

- ☐ Pushes
- ☐ Pops
- ☐ Both push and pops
- ☐ None of the given



Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

Question No : 21 of 26

Marks: 2 (Budgeted Time 4 Min)

Consider the following C++ function as an input to the Parser.

```
1. int* foo(int i, int j)
2. {
3.   for(k=0; i < j; k++)
4.     f(i > j)
```

Answer (Please [click here](#) to Add Answer)



MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

Marks: 2 (Budgeted Time 4 Min)

What is the syntactic error at line 4? How will Parser recognize this syntactic error?

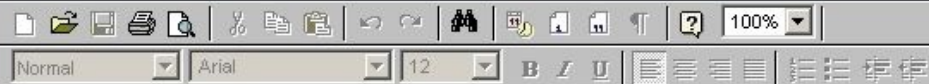
Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

Question No : 22 of 26

Marks: 2 (Budgeted Time 4 Min)

What is upper frontier with respect to discovering handles in shift-reduce parsing?

Answer (Please [click here](#) to Add Answer)



MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

Question No : 23 of 26

Marks: 3 (Budgeted Time 6 Min)

Consider the following C++ function as an input to the Parser.

```
int* foo(int i, int j)
{
    for(k=0; i < j; j++)
        if(i < j-2)
```

Answer (Please [click here](#) to Add Answer)



MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 0308 7122 922 (Team Hadi Lahore)

Question No : 23 of 26

Marks: 3 (Budgeted Time 6 Min)

```
if( i < j-2 )  
sum = sum+i  
return sum;  
}
```

What will be the semantic errors reported by the Parser in the above code?

Answer (Please [click here](#) to Add Answer)

Normal Arial 12 B I U

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 03087122922 (Team Hadi Lahore)

Question No : 24 of 26

Marks: 3 (Budgeted Time 6 Min)

Considering the following grammar, calculate the first set of non-terminals S, A and B.

$S \rightarrow AB$

$A \rightarrow a \mid \epsilon$

$B \rightarrow b \mid \epsilon$

Answer (Please [click here](#) to Add Answer)



MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 0308 7122 922 (Team Hadi Lahore)

Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

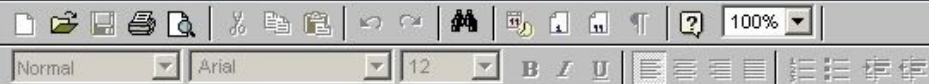
Consider the following grammar;

Statement $\rightarrow$ if expression then statement else statement

Statement $\rightarrow$ if expression then statement

You are required to provide an alternate production(s) so that it may become free from the backtracking.

Answer (Please [click here](#) to Add Answer)



MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 0308 7122 922 (Team Hadi Lahore)

Question No : 26 of 26

Marks: 5 (Budgeted Time 10 Min)

Considering the following grammar, reduce the string "abbcbcd" using Bottom-up parsing

$S \rightarrow aABe$
 $A \rightarrow Abc \mid b$
 $B \rightarrow d$

Answer (Please [click here](#) to Add Answer)



MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 0308 7122 922 (Team Hadi Lahore)

MADE BY HADI

Email: hadirajputofficial@gmail.com Whatsapp: 0308 7122 922 (Team Hadi Lahore)

HADI VU PAST PAPER

WE DEAL ALL KIND OF VU PROJECT
(PHP, ANDROID, PYTHON)

DEAR STUDENTS

ARE YOU LOOKING
FOR ASSISTANCE

- 1) ASSIGNMENTS
- 2) QUIZZES
- 3) GDB
- 4) GRAND QUIZZES

We Provide, You Solution
of VU Academic Activities
include Assignments,
Quizzes, GDBs, Grand Quizzes
If You Need Help in Services
Kindly inform us.

**TEAM HADI
(VU LAHORE)**



TEAM HADI
(VU LAHORE)



HADI TECH

#PAID_TASK

CONTACT US

CALL & WHATSAPP

0308-7122922