

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)

Each operator in a postfix expression refers to the previous _____ operand(s).

Answer (Please select your correct option)

One



Two



Three



Four



A Good Education is a Foundation For a Better Future

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

MADE BY HADI

“Start where you are. Use what you have. Do what you can.”

Question No : 2 of 26

Marks: 1 (Budgeted Time 1 Min)

Which one of the following statements is correct?

Answer (Please select your correct option)

Array size is fixed once it is created.



Link List size is fixed once it is created.

Binary Search Tree size is fixed once it is created

AVL Tree size is fixed once it is created

MADE BY HADI

“Start where you are. Use what you have. Do what you can.”

Question No : 3 of 26

Marks: 1 (Budgeted Time 1 Min)

Linked list always contains elements that can be described as ,

Answer (Please select your correct option)

Redundant

Recursive

Self-referential.

Bidirectional.

Correct answer solved by hadi

MADE BY HADI

“Start where you are. Use what you have. Do what you can.”

Question No : 4 of 26

Marks: 1 (Budgeted Time 1 Min)

One difference between a queue and a stack is:

Answer (Please select your correct option)

Queues require dynamic memory, but stacks do not.

Stacks require dynamic memory, but queues do not.

Queues use two ends of the structure; stacks use only one.

Stacks use two ends of the structure, queues use only one.



MADE BY HADI

“Start where you are. Use what you have. Do what you can.”

Question No : 5 of 26

Marks: 1 (Budgeted Time 1 Min)

Stack and Queue can be implemented using _____,

Answer (Please select your correct option)

Singly Link List



Binary Tree

Binary Search Tree

AVL Tree

A Good Education is a Foundation For a Better Future

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

MADE BY HADI

“Start where you are. Use what you have. Do what you can.”

Question No : 6 of 26

Marks: 1 (Budgeted Time 1 Min)

New items are added at the _____ of the stack.

Answer (Please select your correct option)

Bottom

Middle

Top

Center



MADE BY HADI

“Start where you are. Use what you have. Do what you can.”

Question No : 7 of 26

Marks: 1 (Budgeted Time 1 Min)

_____ is the stack characteristic but _____ was implemented because of the size limitation of the array.

Answer (Please select your correct option)

isFull(),isEmpty()

pop(), push()

isEmpty() , isFull()

push(),pop()



Correct answer solved by hadi

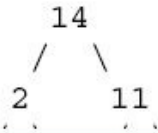
MADE BY HADI

“Start where you are. Use what you have. Do what you can.”

Question No : 8 of 26

Marks: 1 (Budgeted Time 1 Min)

Consider the following tree.



Answer (Please select your correct option)

2

3

4

5

MADE BY HADI

“Start where you are. Use what you have. Do what you can.”

Question No : 9 of 26

Marks: 1 (Budgeted Time 1 Min)

The difference between a "Binary Tree (BT)" and a "Binary Search Tree(BST)" is that ,

Answer (Please select your correct option)

A BST has two children per node whereas a BT can have none, one, or two children per node

In BST, nodes are inserted based on the values they contain

In BT, nodes are inserted based on the values they contain

There is no difference

A Good Education is a Foundation For a Better Future

CORRECT ANSWER SOLVED BY HADI

EMAIL: hadirajputofficial@gmail.com

WHATSAPP & CALL: 03087122922

MADE BY HADI

"Start where you are. Use what you have. Do what you can."

Question No : 10 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following operations returns "most recently entered value" from the stack ?

Answer (Please select your correct option)

Push

Recent

Top

First



Correct answer solved by hadi

MADE BY HADI

"Start where you are. Use what you have. Do what you can."

Question No : 11 of 26

Marks: 1 (Budgeted Time 1 Min)

Which of the following is correct about AVL Tree?

Answer (Please select your correct option)

- It is identical to BST except height of the left and right subtrees can differ by at least 1.
- It is identical to BST except height of the left and right subtrees must differ by at least 1.
- It is not identical to BST, its totally different kind of tree.
- It is identical to BST except height of the left and right subtrees can differ by at most 1.



MADE BY HADI

“Start where you are. Use what you have. Do what you can.”

Question No : 12 of 26

Marks: 1 (Budgeted Time 1 Min)

What will be postfix expression of the following infix expression?
Infix Expression : $a+b*c-d$

Answer (Please select your correct option)

$ab+c*d-$

$abc*+d-$

$abc+*d-$

$abcd+*-$

A Good Education is a Foundation For a Better Future

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

MADE BY HADI

"Start where you are. Use what you have. Do what you can."

Question No : 13 of 26

Marks: 1 (Budgeted Time 1 Min)

In the call by methodology, a copy of the object is passed to the called function.

Answer (Please select your correct option)

- Reference
- Value
- Reference & Value
- Copy of the object can not be passed



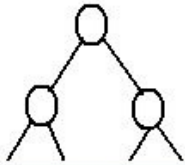
MADE BY HADI

“Start where you are. Use what you have. Do what you can.”

Question No : 14 of 26

Marks: 1 (Budgeted Time 1 Min)

Consider the following tree, how many levels does it has?



Answer (Please select your correct option)

One

Two

Three

Seven

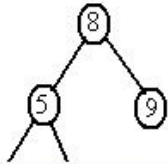
MADE BY HADI

“Start where you are. Use what you have. Do what you can.”

Question No : 15 of 26

Marks: 1 (Budgeted Time 1 Min)

Consider the following tree, which statement is correct about this tree.



Answer (Please select your correct option)

3 and 5 are on the same level

7 is the parent of 3

9 is the root of this tree

5 is on the second level

MADE BY HADI

“Start where you are. Use what you have. Do what you can.”

Question No : 16 of 26

Marks: 1 (Budgeted Time 1 Min)

Recursive call of a function use..... data structure.

Answer (Please select your correct option)

Linked List

Queue

Stack

Table



Correct answer solved by hadi

MADE BY HADI

“Start where you are. Use what you have. Do what you can.”

Question No : 17 of 26

Marks: 1 (Budgeted Time 1 Min)

In the statement `int& a= b;`

Answer (Please select your correct option)

- a and b pointing to two different memory location
- a and b are two different names of the same memory location
- a and b are two different variable names
- b hold the address of variable a



MADE BY HADI

“Start where you are. Use what you have. Do what you can.”

Question No : 18 of 26

Marks: 1 (Budgeted Time 1 Min)

The variables which are destroyed automatically when a function's execution ends are:

Answer (Please select your correct option)

- Global variables
- Local variables defined inside function body
- Variables (objects) defined inside function body dynamically
- Variables (objects) defined inside function body statically



A Good Education is a Foundation For a Better Future

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

MADE BY HADI

"Start where you are. Use what you have. Do what you can."

Question No : 19 of 26

Marks: 1 (Budgeted Time 1 Min)

The worst case of searching in binary search tree (BST) is:

Answer (Please select your correct option)

When the data inserted in BST is sorted



When the height of left sub-tree is greater than right sub-tree

When the height of right sub-tree is greater than left sub-tree

When the tree is balanced

MADE BY HADI

"Start where you are. Use what you have. Do what you can."

Question No : 20 of 26

Marks: 1 (Budgeted Time 1 Min)

In simple implementation of stack, isFull() method is used due to

Answer (Please select your correct option)

Limitation of array



Strength of array

Linked list connectivity

Complexity of linked list

A Good Education is a Foundation For a Better Future

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

MADE BY HADI

“Start where you are. Use what you have. Do what you can.”

Question No : 21 of 26

Marks: 2 (Budgeted Time 4 Min)

In which of the traversal methods, recursion can not be applied?

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

Normal Arial 12 B I U

by using an explicit stack.
We cannot avoid stack. The stack will be used to store the tree nodes in the appropriate order.

MADE BY HADI

“Start where you are. Use what you have. Do what you can.”

Question No : 22 of 26

Marks: 2 (Budgeted Time 4 Min)

How can we calculate the height of tree ?

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



Normal Arial 12 B I U

It is the longest path from the node to a leaf. So height is the number of edges of the path

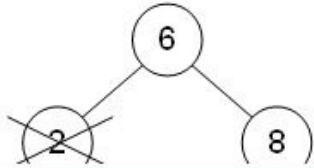
MADE BY HADI

“Start where you are. Use what you have. Do what you can.”

Question No : 23 of 26

Marks: 3 (Budgeted Time 6 Min)

What will be the resultant tree after deleting the node 2 from the tree given below.



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



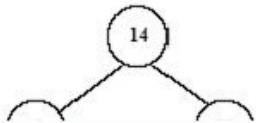
MADE BY HADI

“Start where you are. Use what you have. Do what you can.”

Question No : 24 of 26

Marks: 3 (Budgeted Time 6 Min)

Consider the following AVL tree. Insert a new node with key of 12. No need to show all steps, just draw the final AVL tree .



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



Normal Arial 12 B I U

See AVL tree
youtube

MADE BY HADI

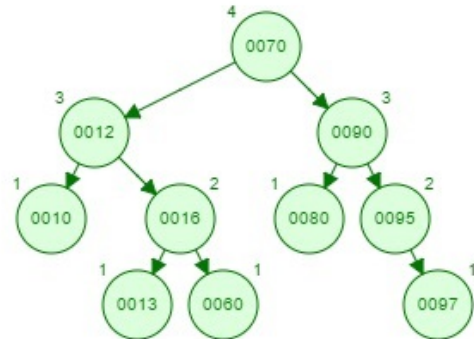
“Start where you are. Use what you have. Do what you can.”

Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

Show the result of inserting the values 10, 80, 12, 70, 90, 60, 13, 16, 95, 97 into an empty AVL Tree. You have to show only the complete AVL tree, steps are not required.

Answer (Please s



100%

Normal

MADE BY HADI

“Start where you are. Use what you have. Do what you can.”

Explain the priority queue with the help of real world examples?

BEST OF LUCK: TEAM HADI LAHORE

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



Normal Arial 12 B I U

the queue is a FIFO (First in first out) structure. In daily life, you have also seen that it is not true that a person, who comes first, leaves first from the queue. Let's take the example of traffic. Traffic is stopped at the signal. The vehicles are in a queue. When the signal turns green, vehicles starts moving. The vehicles which are at the front of the queue will cross the crossing first. Suppose an ambulance comes from behind. Here ambulance should be given priority. It will bypass the queue and cross the intersection. Sometimes, we have queues that are not FIFO i.e. the person who comes first may not leave first. We can develop such queues in which the condition for leaving the queue is not to enter first. There may be some priority. Here we will also see the events of future like the customer is coming at what time and leaving at what time. We will arrange all these events and insert them in a priority queue. We will develop the queue in such a way that we will get the event which is going to happen first of all in the future. This data structure is known as priority queue. In a sense, FIFO is a special case of priority queue in which priority is given to the time of arrival. That means the person who comes first has the higher priority while the one who comes later, has the low priority. You will see the priority queue being used at many places especially in the operating systems. In operating systems, we have queue of different processes. If some process comes with higher priority will be processed first

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)



#PAID_TASK

CONTACT US

CALL & WHATSAPP

0308-7122922