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Q 7 - A queue data-structure can be used for -

A - expression parsing

B - recursion

C - resource allocation

D - all of the above

Answer : C

Explanation

Queues can be used for limited resource allocation. For other operations, stacks are used.

Show Answer

Q 8 - Tower of hanoi is a classic example of

A - divide and conquer


B - recursive approach

C - B but not A

D - Both A & B


Show Answer

Q 9 - Shell sort uses



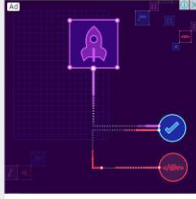
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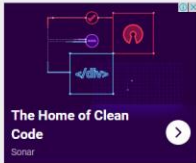
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Selected Reading

- UPSC IAS Exams Notes
- Developer's Best Practices
- Questions and Answers
- Effective Resume Writing
- HR Interview Questions
- Computer Glossary
- Who is Who



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Q 5 - An algorithm is

A - a piece of code to be executed.

B - a loosely written code to make final code.

C - a step by step procedure to solve problem.

D - all of the above.

Answer : C

Explanation

An algorithm is a step by step procedure to solve a computer problem.

Show Answer

Q 6 - The number of binary trees with 3 nodes which when traversed in post order gives the sequence A,B,C is ?

A - 3

B - 4


C - 5

D - 6

Answer : C


Explanation

Five binary trees (of 3 nodes) are possible.



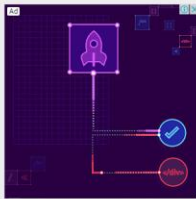
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Other bookmarks: Other bookmarks

DSA - Bubble Sort

- DSA - Insertion Sort
- DSA - Selection Sort
- DSA - Merge Sort
- DSA - Shell Sort
- DSA - Quick Sort

Graph Data Structure

- DSA - Graph Data Structure
- DSA - Depth First Traversal
- DSA - Breadth First Traversal

Tree Data Structure

- DSA - Tree Data Structure
- DSA - Tree Traversal
- DSA - Binary Search Tree
- DSA - AVL Tree
- DSA - Spanning Tree
- DSA - Heap

Recursion

- DSA - Recursion Basics
- DSA - Tower of Hanoi
- DSA - Fibonacci Series

DSA Useful Resources

DSA - Quick sort algorithm is an example of

A - Greedy approach

B - Improved binary search

C - Dynamic Programming

D - Divide and conquer

Answer : D

Explanation

Quick sort divides the list using pivot and then sorts in recursive manner. It uses divide and conquer approach.

Show Answer

Q 4 - Minimum number of spanning tree in a connected graph is

A - n

B - $n^n - 1$

C - 1

D - 0

Answer : C

Explanation

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DSA - Dynamic Programming

Data Structures

- DSA - Data Structure Basics
- DSA - Array Data Structure

Linked Lists

- DSA - Linked List Basics
- DSA - Doubly Linked List
- DSA - Circular Linked List

Stack & Queue

- DSA - Stack
- DSA - Expression Parsing
- DSA - Queue

Searching Techniques

- DSA - Linear Search
- DSA - Binary Search
- DSA - Interpolation Search
- DSA - Hash Table

Sorting Techniques

- DSA - Sorting Algorithms
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- DSA - Selection Sort

Q 1 - What is the worst case run-time complexity of binary search algorithm?

A - $O(n^2)$

B - $O(n^{99})$

C - $O(n^3)$

D - $O(n \log n)$

Answer : D

Explanation

In the worst case, binary search will be left or right intended, making it compare all the n values.

Show Answer

Q 2 - push() and pop() functions are found in

A - queues

B - lists

C - stacks

D - trees

Show Answer

Q 3 - Quick sort algorithm is an example of

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Q 1 - What is the worst case run-time complexity of binary search algorithm?

A - $O(n^2)$

B - $O(n^{\log n})$

C - $O(n^3)$

D - $O(n)$

Answer : D

Explanation

In the worst case, binary search will be left or right intended, making it compare all the n values.

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Q 3 - Quick sort algorithm is an example of

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Q 8 - Tower of Hanoi is a classic example of

A - divide and conquer

B - recursive approach

C - B but not A

D - Both A & B

Show Answer

Q 9 - Shell sort uses

A - insertion sort

B - merge sort

C - selection sort

D - quick sort

Answer : A

Explanation

Shell sort uses insertion sort when interval value is 1.

Show Answer

Q 10 - In conversion from prefix to postfix using stack data-structure, if operators and operands are pushed and popped exactly once, then the run-time complexity is -

A - $O(1)$

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Question 23:

How do you start writing a while loop in Python?

✓ while x > y:

Your answer

while (x > y)

while x > y {

x > y while {

Question 24:

How do you start writing a for loop in Python?

✓ for x in y:

Your answer

for x > y:

for each x in y:

Question 25:

Which statement is used to stop a loop?

✓ break

Your answer

exit

return

stop

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Question 21:

Which collection does not allow duplicate members?

✓ SET

Your answer

TUPLE

LIST

Question 22:

How do you start writing an if statement in Python?

✓ if x > y:

Your answer

if x > y then:

if (x > y)

Question 23:

How do you start writing a while loop in Python?

✓ while x > y:

Your answer

while (x > y)

while x > y {

x > y while {

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Question 20:

Which collection is ordered, changeable, and allows duplicate members?

✓ LIST

TUPLE

DICTIONARY

SET

Question 21:

Which collection does not allow duplicate members?

✓ SET

TUPLE

LIST

Question 22:

How do you start writing an if statement in Python?

✓ if x > y:

if x > y then:

if (x > y)

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Question 18:

Which of these collections defines a SET?

✓ ["apple", "banana", "cherry"]

["apple", "banana", "cherry"]

{"name": "apple", "color": "green"}

["apple", "banana", "cherry"]

Question 19:

Which of these collections defines a DICTIONARY?

✓ {"name": "apple", "color": "green"}

["apple", "banana", "cherry"]

["apple", "banana", "cherry"]

["apple", "banana", "cherry"]

Question 20:

Which collection is ordered, changeable, and allows duplicate members?

✓ LIST

TUPLE

DICTIONARY

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Question 16:

Which of these collections defines a LIST?

✓ ["apple", "banana", "cherry"]

Your answer

{ "name": "apple", "color": "green" }

["apple", "banana", "cherry"]

["apple", "banana", "cherry"]

Question 17:

Which of these collections defines a TUPLE?

✓ ("apple", "banana", "cherry")

Your answer

{ "name": "apple", "color": "green" }

["apple", "banana", "cherry"]

["apple", "banana", "cherry"]

Question 18:

Which of these collections defines a SET?

✓ {"apple", "banana", "cherry"}

Your answer

["apple", "banana", "cherry"]

["name": "apple", "color": "green"]

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Question 14:

Which operator is used to multiply numbers?

✓ *

Your answer

%

x

#

Question 15:

Which operator can be used to compare two values?

✓ ==

Your answer

<>

=

><

Question 16:

Which of these collections defines a LIST?

✓ ["apple", "banana", "cherry"]

Your answer

{ "name": "apple", "color": "green" }

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Question 12:

Which method can be used to return a string in upper case letters?

✓ upper()

Your answer

upperCase()

uppercase()

toUpperCase()

Question 13:

Which method can be used to replace parts of a string?

✓ replace()

Your answer

switch()

repl()

replaceString()

Question 14:

Which operator is used to multiply numbers?

✓ *

Your answer

%

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Question 9:

In Python, 'Hello', is the same as "Hello"

✓ True

Your answer

False

Question 10:

What is a correct syntax to return the first character in a string?

✓ x = "Hello"[0]

Your answer

x = "Hello".sub(0, 1)

x = sub("Hello", 0, 1)

Question 11:

Which method can be used to remove any whitespace from both the beginning and the end of a string?

✗ trim()

Your answer

len()

strip()

Correct answer

ptrim()

Question 12:

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Question 6:

How do you create a variable with the floating number 2.8?

Both the other answers are correct

Your answer

x = 2.8

x = float(2.8)

Question 7:

What is the correct syntax to output the type of a variable or object in Python?

print(type(x))

Your answer

print(typeOf(x))

print(typeof x)

print(typeof(x))

Question 8:

What is the correct way to create a function in Python?

def myFunction():

Your answer

function myfunction():

create myFunction():

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Question 4:

How do you create a variable with the numeric value 5?

Both the other answers are correct

Your answer

x = int(5)

x = 5

Question 5:

What is the correct file extension for Python files?

.py

Your answer

.pyth

.pyt

.pt

Question 6:

How do you create a variable with the floating number 2.8?

Both the other answers are correct

Your answer

x = 2.8

x = float(2.8)

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Question 3:

Which one is NOT a legal variable name?

✖ `_myvar`

Your answer

✔ `my-var`

Correct answer

`Myvar`

`my_var`

Question 4:

How do you create a variable with the numeric value 5?

✔ Both the other answers are correct

Your answer

`x = int(5)`

`x = 5`

Question 5:

What is the correct file extension for Python files?

✔ `.py`

Your answer

`.pyth`

`.pyt`

`.pt`

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Python Quiz Results

Score: 23 of 25

92% Correct:

Question 1:

What is a correct syntax to output "Hello World" in Python?

✔ `print("Hello World")`

Your answer

`p("Hello World")`

`echo "Hello World"`

`echo("Hello World");`

Question 2:

How do you insert COMMENTS in Python code?

✔ `#This is a comment`

Your answer

`//This is a comment`

`/*This is a comment*/`

Question 3:

Which one is NOT a legal variable name?

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