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Capgemini Pseudo Code MCQs

Capgemini Pseudo Code MCQs - Syllabus

The syllabus for Capgemini pseudo code MCQs section is as given below. Questions will be mostly on these topics only.

Programming Logic Based MCQs (Pseudocode)

C
C++
Data Structures
OOPS

Capgemini Pseudo Code MCQs (previously asked)

Question 1:- What will be the value of s if n=127?

Read n



i=0,s=0

Function Sample(int n)

while(n>0)

r=n%10

p=8^i

s=s+p*r

i++

n=n/10

End While

Return s;

End Function

- a) 27
- b) 187
- c) 87
- d) 120

Answer :- Option C

Question 2:- What will be the output of the following pseudocode?

Integer n

for (n = 3; n! = 0; n--)

Print n

n = n-1

end for

- a) 3 1
- b) 3 2 1
- c) 3



```
d) Infinite Loop
Answer :- Option D
Question 3:- What will be the output of the following pseudocode?
For input a = 8 \& b = 9.
Function(input a, input b)
                                                    255
If(a < b)
return function(b, a)
elseif(b != 0)
return (a + function(a,b-1))
else
return 0
a) 56
b) 78
c) 72
d) 68
Answer :- Option C
Question 4:- What will be the value of even counter if number = 2630?
Read number
Function divisible(number)
even counter = 0, num remainder = number;
while (num remainder)
digit = num remainder % 10;
if digit != 0 AND number % digit == 0
even counter= even counter+1
End If
```



 $num_remainder = num_remainder \ / \ 10;$

End While

return even_counter;

- a) 3
- b) 4
- c) 2
- d) 1

Answer :- Option D

Question 5:- What will be the value of t if a =56, b = 876?

Read a,b

Function mul(a, b)

t = 0

while (b != 0)

t = t + a

b=b-1

End While

return t;

End Function

- a) 490563
- b) 49056
- c) 490561



d) None of the mentioned

Answer :- Option B

Question 6:- Code to sort given array in ascending order:

Read size

Read a[1],a[2],a[size]

i=0

While(i<size)

j=i+1

While(j<size)

If $a[i] \le a[j]$ then

t=a[i];

a[i] = a[j];

a[j] = t;

End If

j=j+1

End While

i=i+1

End While

i=0

While (i<size)

print a[i]

i=i+1

End While

Find out the wrong statement in the above pseudocode

- a) Line 4
- b) Line 6
- c) Line 7



d) No Error **Answer :-** Option C Question 7:- What is the time complexity of searching for an element in a circular linked list? a) O(n) b) O(nlogn) c) O(1) d) None of the mentioned **Answer:** Option A Question 8:- In the worst case, the number of comparisons needed to search a singly linked list of length n for a given element is a) log 2 n b) n² c) log 2 n 1 d) n **Answer:** Option D Question 9:- Which of the following will give the best performance? a) O(n) b) O(n!) c) O(n log n) d) O(n^C) **Answer:** Option A **Question 10:-** How many times the following loop be executed? ch = b;while(ch \geq = a && ch \leq = z) ch++; }



```
a) 0
b) 25
c) 26
d) 1
Answer :- B
Question 11:- Consider the following piece of code. What will be the space
required for this code?
int sum(int A[], int n)
{
int sum = 0, i;
for(i = 0; i < n; i++)
sum = sum + A[i];
return sum;
}
// sizeof(int) = 2 bytes
a) 2n + 8
b) 2n + 4
c) 2n + 2
d) 2n
Answer:- A
Question 12:- What will be the output of the following pseudo code?
For input a=8 & b=9.
Function(input a,input b)
If(a<b)
return function(b,a)
elseif(b!=0)
return (a+function(a,b-1))
```

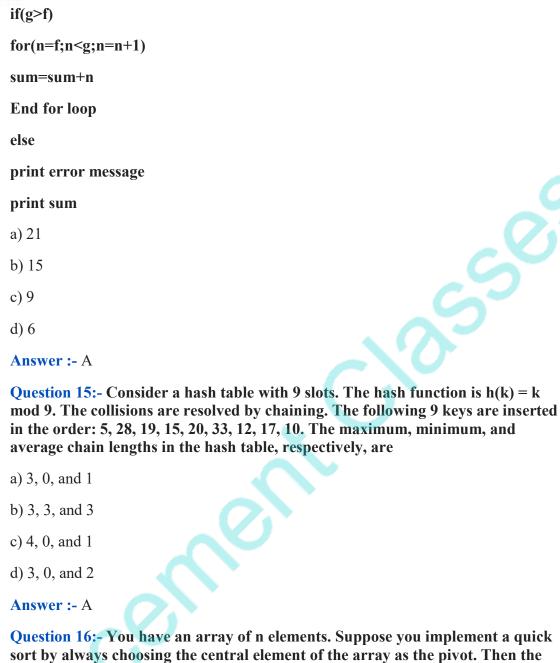


else return 0 a) 56 b) 88 c) 72 d) 65 **Answer :- C** Question 13:- What will be the output of the following pseudo code? Input m=9,n=6 m=m+1N=n-1m=m+nif (m>n)print m else print n a) 6 b) 5 c) 10 d) 15 **Answer :-** D **Question 14:-** What will be the output of the following pseudo code?

Input f=6,g=9 and set sum=0

Integer n





tightest upper bound for the worst case performance is:

- a) O(n2)
- b) O(nLogn)
- c) ?(nLogn)
- d) O(n3)

Answer :- A

Question 17:- Let G be a graph with n vertices and m edges. What is the tightest upper bound on the running time on Depth First Search of G? Assume that the



graph is represented using adjacency matrix. a)O(n) b)O(m+n)c)O(n2)d)O(mn) **Answer:-**C Question 18:- Let P be a Quick Sort Program to sort numbers in ascending order using the first element as a pivot. Let t1 and t2 be the number of comparisons made by P for the inputs $\{1, 2, 3, 4, 5\}$ and $\{4, 1, 5, 3, 2\}$ respectively. Which one of the following holds? a)t1 = 5b)t1 < t2c)t1 > t2d)t1 = t2**Answer:-**C Question 19:- What does the following piece of code do? public void func(Tree root) func(root.left()); func(root.right()); System.out.println(root.data()); a)Preorder traversal b)Inorder traversal c) Postorder traversal d)Level order traversal



Answer :- C

Question 20:- How will you find the minimum element in a binary search tree?

```
a) public void min(Tree root)
while(root.left() != null)
root = root.left();
System.out.println(root.data());
}
b) public void min(Tree root)
while(root != null)
{
root = root.left();
System.out.println(root.data());
c) public void min(Tree root)
while(root.right() != null)
root = root.right();
}
```

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```
System.out.println(root.data());
}
d) public void min(Tree root)
while(root != null)
root = root.right();
System.out.println(root.data());
}
Answer :- A
```