<u>Dashboard</u> / My courses / <u>CS102 2024 1</u> / <u>General</u> / <u>BasicQuiz</u>

	Friday 2 February 2024, 11:13 AM	
State	Friday, 2 February 2024, 11:13 AM Finished	
	Friday, 2 February 2024, 11:27 AM	
Time taken	13 mins 48 secs	
Grade	14.00 out of 18.00 (78 %)	
Question 1		
Correct		
Mark 1.00 out of 1.00		
Select all those that	t are not non linear data structure from the given options.	
a. <u>Array</u>		
J b. Graph		~
c. Linked List		
☑ d. <u>Tree</u>		~
Your answer is corre	ect.	
The correct answers Graph,	s are:	
<u>Tree</u>		
Question 2		
Correct		
Correct Mark 1.00 out of 1.00	of Pinany coarch is	
Correct Mark 1.00 out of 1.00	of Binary search is	
Correct Mark 1.00 out of 1.00	of Binary search is	
Correct Mark 1.00 out of 1.00 Search complexity of	of Binary search is	
Correct Mark 1.00 out of 1.00 Search complexity of a. O(nlog n)	of Binary search is	
Correct Mark 1.00 out of 1.00 Search complexity of a. O(nlog n) b. O(n^1)		
Correct Mark 1.00 out of 1.00 Search complexity complexity of a. O(nlog n) b. O(n^1) c. O(1)		~
Search complexity of a. O(nlog n) b. O(n^1) c. O(1) d. None of these	se •	~
Correct Mark 1.00 out of 1.00 Search complexity of a. O(nlog n) b. O(n^1) c. O(1) d. None of these e. O(log n)	se ect.	~

Question 3	
Correct	
Mark 1.00 out of 1.00	
Binary search algorithm cannot be applied to	
a. sorted binary <u>trees</u>	
a. sorted billary arees	
○ b. sorted linked list	
○ c. None of these	
Od. sorted linear <u>array</u>	
e. Pointer <u>array</u>	~
Your answer is correct.	
The correct answer is: Pointer <u>array</u>	
Question 4	
Incorrect	
Mark 0.00 out of 1.00	
How much memory does a boolean variable occupy?	
○ a. 2 Byte	
© a. 2 byte	
	×
○ c. 2 Bits	
O d. None of these	
G. None of these	
○ e. 1 Bit	
Your answer is incorrect.	
The correct answer is:	
1 Bit	

Question 5
Correct Mark 1.00 out of 1.00
Consider the student records of your class sorted in student id order. How much time it will take to search a student name with student id x.
$^{\circ}$ a. $_{O(n)}$
$^{\odot}$ b. $O(1)$
$^{\circ}$ c. $O(loglogn)$
$ riangleq extsf{d.}\ O(logn)$
Your answer is correct. The correct answer is:
O(logn)
O(log n)
Question 6
Correct Mark 1.00 out of 1.00
Time Complexity of obtaining n rectangles by folding paper once in each operation is?
○ a. O(n^1)
c. None of these
Od. O(nlog n)
O e. O(1)
Your answer is correct.
The correct answer is: O(log n)

Question 7	
Question 2	
Incorrect	
Mark 0.00 out of 1.00	
Which of the following statements is/are not correct about Garbage Collection in JAVA?	
Which of the following statements is, are not confect about our bage confection in state.	
a. Removes referenced objects from <u>heap</u> memory.	
☑ b. It is an automatic process.	×
c. It makes memory management efficient.	×
d. Process of reclaiming the runtime used memory by destroying the unused objects.	
Your answer is incorrect.	
The correct answers are:	
Removes referenced objects from <u>heap</u> memory.,	
Process of reclaiming the runtime used memory by destroying the unused objects.	
Question 8	
Incorrect	
Mark 0.00 out of 1.00	
Which of the fellowing is fare not correct?	
Which of the following is/are not correct?	
Which of the following is/are not correct?	
Which of the following is/are not correct?	×
 a. The total number of uniquely identifiable locations in memory is called the address space. 	×
	×
 a. The total number of uniquely identifiable locations in memory is called the address space. b. Each computer instruction consists of sixteen bits divided into four 4-bit fields. c. 20 bits are needed to address any single word in memory if the computer has 8 MB of memory and each word in this 	×
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Question 9
Correct
Mark 1.00 out of 1.00
Which of the following kind of function represent running time of an algorithm?
a. Increasing function
 b. Decreasing function
c. Both (a) and (b)
O d. None (a) and (b)
Your answer is correct.
The correct answer is:
Increasing function
Question 10
Correct
Mark 1.00 out of 1.00
Which of the following are linear data structures?
a. Linked List
O b. Queue
○ c. <u>Stack</u>
■ d. All of these ✓
○ e. <u>Array.</u>
Your answer is correct.
The correct answer is:
All of these

Question 11
Correct
Mark 1.00 out of 1.00
What day Die Oh matation are assets?
What does Big Oh notation represents?
 a. Maximum time required to run a program
b. Minimum time required to run a program.
c. Average time required to run a program
C. 7 Weldige time required to run a program
d. None of the above.
e. All of these
Your answer is correct.
The correct answer is:
Maximum time required to run a program
Question 12
Correct
Mark 1.00 out of 1.00
In Java the data type <i>char</i> is commonly
a. 8-bit Unicode character
 b. 16-bit Unicode character
D. 10-Dit Officode character
c. 32-bit Unicode character
 d. 64-bit Unicode character
○ e. None of these
Your answer is correct.
The correct answer is: 16-bit Unicode character
To bit officed character

Question 13
Correct
Mark 1.00 out of 1.00
Given an <u>array</u> $s = \{"Gujrat", "Odisha", "Kashmir", "Tamilnadu"\}, what shall be output of the code fragment System.out.println("s = " + Arrays.toString(s));$
○ a. s = [GOKT]
○ b. s = [GujratOdishaKashmirTamilnadu]
© c. s = [Gujrat, Odisha, Kashmir, Tamilnadu]
\bigcirc d. s = [G, O, K, T]
Your answer is correct.
The correct answer is: s = [Gujrat, Odisha, Kashmir, Tamilnadu]
Question 14 Incorrect
Mark 0.00 out of 1.00
What is the asymptotic relation between functions $f^{(p)} = \sqrt{n}$ and $g^{(p)} = (\log n)^7$?
\bigcirc a. $f^{\bullet}_{\bullet} = \Omega(g^{\bullet}_{\bullet})$
\odot b. $f^{\bullet}_{\bullet} = O(g^{\bullet}_{\bullet})$
\bigcirc c. $f^{\bullet}_{\bullet} = \Theta(g^{\bullet}_{\bullet})$
○ d. None of these
Your answer is incorrect.
The correct answer is: $f = \Omega(g)$

Question 15	
Correct	
Mark 1.00 out of 1.00	
Which of the following asymptotic relation is an equivalence relation?	
⊚ a. <i>⊙</i>	✓
○ b. ω	
o c. All of these	
\bigcirc d. Ω	
○ e. O	
Your answer is correct.	
The correct answer is:	
⊖	
16	
Question 16 Correct	
Mark 1.00 out of 1.00	
If the complexity of an algorithm is defined as O(n ²), then out of the following notations, which of	can be used?
If the complexity of an algorithm is defined as $O(n^2)$, then out of the following notations, which $o(n^2)$ a. $O(n^1)$	can be used?
	can be used?
\square a. $O(n^1)$	can be used?
 a. O(n¹) b. O(log n) ✓ c. O(n³) 	can be used?
 a. O(n¹) b. O(log n) 	can be used?
 a. O(n¹) b. O(log n) ✓ c. O(n³) ✓ d. O(n⁴) 	can be used?
 a. O(n¹) b. O(log n) ✓ c. O(n³) ✓ d. O(n⁴) Your answer is correct.	can be used?
 a. O(n¹) b. O(log n) ✓ c. O(n³) ✓ d. O(n⁴) Your answer is correct. The correct answers are: O(n³),	can be used?
 a. O(n¹) b. O(log n) ✓ c. O(n³) ✓ d. O(n⁴) Your answer is correct.	can be used?
 a. O(n¹) b. O(log n) ✓ c. O(n³) ✓ d. O(n⁴) Your answer is correct. The correct answers are: O(n³),	can be used?
 a. O(n¹) b. O(log n) ✓ c. O(n³) ✓ d. O(n⁴) Your answer is correct. The correct answers are: O(n³),	can be used?
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 a. O(n¹) b. O(log n) ✓ c. O(n³) ✓ d. O(n⁴) Your answer is correct. The correct answers are: O(n³),	can be used?
 a. O(n¹) b. O(log n) ✓ c. O(n³) ✓ d. O(n⁴) Your answer is correct. The correct answers are: O(n³),	can be used?
 a. O(n¹) b. O(log n) c. O(n³) d. O(n⁴) Your answer is correct. The correct answers are: O(n³),	can be used?
 a. O(n¹) b. O(log n) ✓ c. O(n³) ✓ d. O(n⁴) Your answer is correct. The correct answers are: O(n³),	can be used?

Question 17	
Correct M. L. 1.00 1.100	
Mark 1.00 out of 1.00	
Primitive data types are passed by which of the following in Java.	
 a. The variable's pointer is passed 	
b. Pass by Value	~
○ c. Pass by reference	
 d. Both call by value and reference 	
Your answer is correct. The correct answer is:	
Pass by Value	
Question 18	
Correct	
Mark 1.00 out of 1.00	
String object in java is immutable?	
Select one:	
True ✓	
○ False	
The correct answer is 'True'.	
→ ArrayListQuiz	
Jump to	
	LinkedlistQuiz ►
	-