	tion: B	Quiz 7	Roll number: BS62302	9 4
-		accy		
	Which of the follo a) O(n^2)	wing is the worst-case time complexity	of Quicksort? [1]	
	b) O(n log n)			
	c) O(n)			
•	l) O(log n)			
-			***	
	Vhai is the best-ca) O(n^2)	se time complexity of Quicksort?	[1]	
	O(n log n)			
	O(n) O(log n)			
c)	Onlog ny			
23, 16	hich of the follow	ing cases represents the worst-case t	time complexity for Quick Sort?!!	,
b)	When all element	ts are identical	and complexity for garden dorners	,
	When the array is			
-d)	When the pivot is	always the smallest element		
e)	When the pivot is	always the middle element		
24. In	Quick Sort, when	n will the recursion terminate?	[1]	
	When the entire of		`	
		the sub-array is 1 or 0		
c)	After a fixed num	ber of iterations		
d)	When the pivot el	lement is the largest		
	What are the three	steps involved in the Quick Sort po	aradism?	IJ
	Divide, conquer,			
	Conquer, divide,			
c)	Combine, divide,	conquer		
d)	Divide, combine,	conquer		
				1002
		wing methods is the most effective j	for picking the pivot element?	[1]
100	first element			
b)	last element			
TC)	median-of-three	partitioning		
d)	random element			
	- weeks and the transfer of th			
	ind the pivot elem	ent from the given input using med	lian-of-three partitioning meth	
8. F		8, 1, 4, 9, 6, 3, 5, 2, 7, 0.		[1]
8. F			910 - 4	
(8. F	8			
			2	
a) b)	7		2	
a)	7 9		2	





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Section: B

Quiz 7

Roll number:

Q7. Perform a dry run of Quicksort using the middle element as the pivot? arr = [7, 11, 9, 6, 3, 12]

[3]