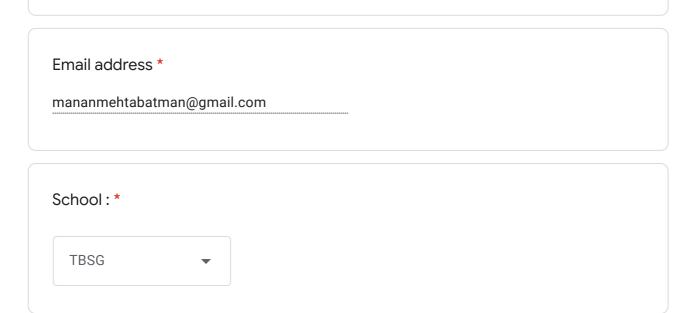
The Brigade School Unit Test 1(2020-21)

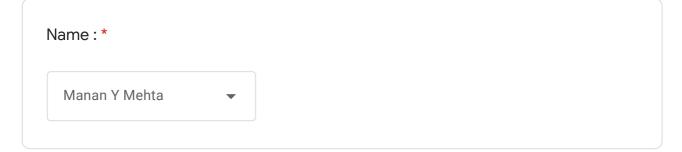
Total points 46/50

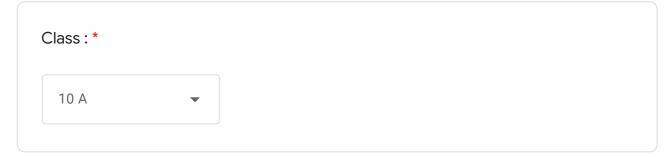


Subject:Computer Applications

Max Marks: 50







Part A(Marks: 20)

Question 1 (a) Which one of the following is a valid statement? *	2/2
char[] c = new char()	
char[] c = new char[5]	✓
char[] c = new char(4)	
char[] c = new char[]	
Question 1 (b) Determine output: int[] x = { 120,200,16}; for(int i = 0; i < x.length; i++) System.out.print(x[i] + " ");	
✓ Question 1 (b) *	2/2
120 200 16	✓
12020014	
O 120	
O 200	
O 16	
o error.	
Question 1 (c) Determine output: int[] x = {1, 2, 3, 4}; int[] y = x; for(int i = 0; i < x.length; i++) System.out.print(y[i] + " ");	

H

✓ Question 1 (c) *	2/2
1234	~
0000	
O 12	
O 0 0	
Question 1 (d) Which of the following will declare, construct, and initial an array? *	alize 2/2
int [] myList = {}	
int [] myList = (5, 8, 2)	
int myList [] [] = {4,9,7,0}	
int myList [] = {4, 3, 7}	✓
Question 1 (e) What is the result of compiling and running the following code? int[] a = new int[0]; System.out.print(a.length);	
✓ Question 1 (e) *	2/2
0	✓
Compilation error, arrays cannot be initialized to zero size	
Compilation error, it is a.length() not a.length	
None of the above	
!	

8	
O 9	
10	✓
none	
Question 2 (b) Identify the searching / the sorting technique. (i) Data is less and is unsorted (ii) adjacent pairs of objects in the array are compared and swapped if they are not in the	correct order.
✓ Question 2 (b) *	2/2
binary search	
✓ linear search	✓
bubble sort	✓
selection sort	
Question 2 (c) An Array in Java is a collection of elements of type. *	data 2/2
a) multiple	
	~
b) similar	
b) similar both a & b	

H

✓ Question 2 (d) In Java language, an array index starts with *	2/2
1	
0	✓
1	
length	
Question 2 (e) What is the output of the below Java program? int[] marks = {35,65,95}; System.out.print(marks.length + "," + marks[1]);	
✓ Question 2 (e) *	2/2
2,65	
3,65	✓
3,95	
2,95	

H

✓ Question 3: Write a program to search a given element using Linear 15/15 search Technique. * import java.util.*; class I search public static void main(String args[]) { Scanner sc=new Scanner(System.in); System.out.println("Enter the numbers"); int a[] = new int[10]; int i=0; int n=0; int k=0; for(i=0;i<10;i++) a[i]=sc.nextInt(); System.out.println("Enter the number to be searched"); int x=sc.nextInt(); for(i=0;i<10;i++) if(a[i]==x){ n=i; k=1; break; } if(k==1)System.out.println("The number is found at array index "+n); } else { System.out.println("The entered number is not present in the array"); } VARIABLE DESCRIPTION TABLE Variable's name -- Datatype -- Description a[10] -- int -- SDA to store 10 numbers

```
i -- int -- Loop variable
n -- int -- Stores the index of the number if present
k -- int -- Helps to print the index of the number if present
```

X Question 4: Write a program to sort the given elements in descending 11/15 order using Bubble sort. *

```
import java.util.*;
class b_sort
public static void main(String args[])
Scanner sc = new Scanner(System.in);
System.out.println("Enter the array elements");
int a[] = new int[10];
int i=0;
int j=0;
int temp=0;
for(i=0;i<10;i++)
a[i]=sc.nextInt();
for(i=0;i<10;i++)
for(j=i+1;j<10;j++)
if(a[i]<a[j])
temp=a[i];
a[i]=a[j];
a[j]=temp;
}
System.out.println("Descending Order");
for(i=0;i<a.length;i++)
System.out.print(a[i]+" ");
}
}
}
VARIABLE DESCRIPTION TABLE
Variable's Name -- Datatype -- Description
a[10] -- int -- SDA to store 10 elements
i -- int -- Outerloop variable
j -- int -- Innerloop Variable
temp -- int -- Helps to sort(by swaping) the variables
```

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