Exp. (40) Actual (4) ARYAVIDYA MANDIR GROUP OF SCHOOLS

Std: X

PRELIMINARY REVIEW - February 2022

Date 12.02.22

COMPUTER APPLICATION

Marks: 50 Time: 1 1/2 Hrs

Note: You will NOT be allowed to write during the first 10 minutes.

This time is to be spent in reading the paper.

The time given at the head of this paper is the time for writing the answers.

The paper is divided into two sections.

Answer all questions from section A and any 4 from section B.

Marks for each question is mentioned in [] to your right. This paper consists of 5 printed pages.

SECTION A (10 marks) Attempt all questions

Question 1

Choose the correct answers to the questions from the given options. (Do [10] not copy the question, Write the correct answer only.)

- i) The parseInt() function is a member of _____ wrapper class.
 - (a) Integer
 - (b) Character
 - (c) Int
 - (d) Float
- ii) Give the output of the following:

int a[]= $\{2,4,6,8,10\}$;

a[0] = 23;

a[3]=a[1];

int c=a[0] + a[3];

System.out.println("Sum ="+c);

- (a)Sum= 72
- (b)Sum=27
- (c)Sum=31
- (d) Sum=10

...2

...2... Contd... Std X Comp Appl Preliminary Review February 2022

Derived class inherits from class.	
(a) child	
(b) static	
(c) sub	
(d) base	
is the name of the array when it is used with a subscript to access a single element of the array.	
(a) actual variable	
(b) primitive variable	
(c)subscripted variable	
(d)None	
Automatic conversion of primitive data into an object of wrapper class is called	
(a)Explicit Conversion	
(b)Implicit Conversion	
(c) Unboxing	
(d) Autoboxing	
If the number of locations reserved for an array is 59, the maximum no of elements that can be stored in this array are:	
(a) 58	
(b) 59	
(c) 60	3
(d) More than 60	
	(a) child (b) static (c) sub (d) base

Contd... Std X Comp Appl Preliminary Review February 2022

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Write the output for the following:
vii)
      String s="Today is Test";
      System.out.print(s.lastIndexOf('T'));
      System.out.println(s.substring(0,7)+ " "+"Holiday");
      (a) 9Today is Holiday
      (b) 9Today i Holiday
      (c)12Today is Holiday
      (d)12 Today isHoliday
      A variable that is bounded to the object itself is called as:
viii)
      (a) Instance variable
      (b) class variable
      (c) Local variable
      (d) Argument variable
      Which keyword makes class members accessible outside the class in
ix)
      which they are declared?
      (a) private
      (b) protected
      (c) package
      (d) public
      Write the output for the following:
X)
      String s="4.3756";
      int n= s.indexOf(".");
      int c = Integer.parseInt(s.substring(0,n));
       int m = Integer.valueOf(s.substring(n+1));
       System.out.println(c+m);
```

- (a)43756
- (b)4 3756
- (c)43760
- (d)3760

Section B (40 marks)

Attempt any four questions from this section.

Each program should be written in such a way that clearly depicts the logic of the program. This should be achieved by using mnemonic names and comments in the program.

Question 2 [10]

Write a program to accept name and corresponding telephone numbers in two different arrays. Accept the name of a person and display the corresponding telephone number using binary search if it is found, otherwise display the message "No such element found"

Question 3

Write a program to input a set of any 10 integer numbers (Use Scanner class). Find the sum and product of the numbers. Convert sum and product as string. Join and display the concatenated numbers, the sum and product to form a single string.

Eg. let sum=245 and product = 1346 then the number after joining sum and product will be 2451346

Question 4

Write a program in Java to enter a sentence. Frame a word by joining all the first characters of each word of the sentence. Display the word. Sample Input: Vital Information Resource Under Seize Sample Output: VIRUS

· Question 5

Write a program to accept the name and total marks of N number of students in two single subscript arrays name[] and totalmarks[].

Calculate and print: ...5

[10]

- (a)43756
- (b)4 3756
- (c)43760
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Write a program in Java to enter a sentence. Frame a word by joining all the first characters of each word of the sentence. Display the word. Sample Input: Vital Information Resource Under Seize Sample Output: VIRUS

** Question 5

Write a program to accept the name and total marks of N number of students in two single subscript arrays name[] and totalmarks[].

Calculate and print:5

[10]

Contd... Std X Comp Appl Preliminary Review February 2022

- (i) The average of the total marks obtained by N number of students. [average = (sum of total marks of all the students)/N]
- (ii) Deviation of each student's total marks with the average. [deviation = total marks of a student - average]

[10]

Question 6

Write a program to accept a sentence. Display the sentence in reversing order of its word.

Sample Input: Computer is Fun Sample Output: Fun is Computer

[10]

Question 7

Two single dimension arrays contain the elements as follows: x[10] = 5, -3, -2, 1, 0, 12, 14, 16, 25, 13y[8] = 6,5,10,15,18,20,22,30

Write a program that results a third array z as follows: z[18] =5,6,-3,5,-2,10,1,15,0,18,12,20,14,22,16,30,25,13

---The End ---