

**ICSE SEMESTER 2 EXAMINATION  
PRACTICE TEST PAPER  
COMPUTER APPLICATIONS**

*Maximum Marks: 50*

*Time allowed: One and a half hours*

**Question 1**

a) Find the output of the following program segment

```
public static void main(String args[])
{int s=0;
  int a[]={2,4,6,8};
for(int i=0;i<=1;i++)
{
s=a[i]+a[3-i];
System.out.println(s);
}
```

b) Find the output of the following program segment

```
public static void main(String s[])
{
  int a,b=0;
int c[]={12,13,14,15,16,17};
for(a=0;a<6;a++)
{
if(a%2==0)
b+=c[a];
}
System.out.print(b) }
```

c) Find the output :

```
String str="The green bottle is in the green bag";
String str1="green";
System.out.println(str.indexOf(str1));
```

d) Find the output

```
String str1="Object Oriented";
System.out.println(str1.substring(6,13));
```

e) Find the output

```
char ch = 'k';
char chr = Character.toUpperCase(ch);
int p = (int) chr;
System.out.println(chr + "\t" + p);
```

f) What is the other name of encapsulation?

g) What is the use of static variable?

h) Write a statement to declare an integer array of 10 elements?

i) What is Autoboxing?

j) What does the method trim() do?

**SECTION B**  
***(Attempt any four questions.)***

**Question 2**

Write a program to accept a string and find:

- i) Number of blank spaces in the string
- ii) Number of words in the string
- iii) Number of characters present in the string.

**Question 3**

Write a program in java to print the first and last word in a given sentence.

**Question 4**

Write a program to find from the following

- a) The largest and smallest element
- b) Product of the odd numbers
- c) Sum of the even numbers of 10 SDA array

**Question 5**

Write a program to accept 10 different names in a Single Dimensional array SDA. Now enter a name and search whether the name is present or not in the list of array elements by using the "linear search" technique.

**Question 6**

Write a program to accept the year of graduation from school as an integer value from the user.

Using the binary search technique on the sorted array of integers given below,

output the message "Record exists" if the value input is located in the array.

If not, output the message "Record does not exist".

Sample Input:

n[0]	n[1]	n[2]	n[3]	n[4]	n[5]	n[6]	n[7]	n[8]	n[9]
1982	1987	1993	1996	1999	2003	2006	2007	2009	2010

**Question 7**

Write a Program in Java to input a string and check whether it is a Unique string or not.

input: computer it is unique

output : application it is not unique