

ICSE SEMESTER 2 EXAMINATION

SAMPLE QUESTION PAPER

COMPUTER APPLICATIONS

CLASS X

Full Marks: 50

SECTION A

(Attempt all questions.)

Question 1

A. Give the output of the following string functions: 5x1=5

(i) "MISSISSIPPI".indexOf('S')+"MISSISSIPPI".lastIndexOf('I')

(ii) System.out.println ("four :" + 4 + 2);

System.out.println ("four :"+(2+2));

(iii) String x="BLUE";

```
char c; String p=" "; int i;
```

```
for(i=0;i<x.length();i++)
```

```
{
```

```
    c=x.charAt(i);
```

```
    p=c+p;
```

```
    System.out.println(p);
```

```
}
```

(iv) String str1="world matters";

```
String s1=str1.substring(5).replace('t','n');
```

```
System.out.println(s1);
```

(v) String s="india",s1="India";

```
System.out.println(s.equals(s1));
```

B. Write a statement each to perform the following task on a string: 2x1=2

(i) Find and display the position of the last space in a string s.

(ii) Check if the second character of a string str is in uppercase.

C. State the purpose and return data type of the following String functions :- 3x1=3

i) trim()

ii) charAt()

iii) CompareTo()

SECTION B

(Attempt any four questions.)

Question 2

Write a program to accept a word and convert it into lower case, if it is in upper case. Display the new word by replacing only the vowels with the letter following it.

Sample Input : computer

Sample Output : cpmptvfr

Question 3

A computer operator has typed 0 (zero) in place of 'O' in a given String. The String is typed as:

WELCOME TO BIRLA PLANETARIUM

Write a program to replace all the zeros (0) with 'O' and display the string as:

WELCOME TO BIRLA PLANETARIUM

Question 4

Write a program in Java to enter a String/Sentence and display the longest word and the length of the longest word present in the String.

Sample Input: "TATA FOOTBALL ACADEMY WILL PLAY AGAINST MOHAN BAGAN"

Sample Output: The longest word: FOOTBALL: The length of the word: 8

Question 5

Write a program to input a sentence. Count and display the frequency of each letter of the sentence in alphabetical order.

Sample Input: COMPUTER APPLICATIONS

Sample Output:

Character	Frequency	Character	Frequency
A	2	O	2
C	2	P	3
I	1	R	1
L	2	S	1
M	1	T	2
N	1	U	1

Question 6

Program to print all the palindrome words in the inputted string:

sample input: MOM AND DAD ARE NOT AT HOME

OUTPUT: MOM

DAD