COMPUTER APPLICATION
CLASS X
PRACTICE TEST PAPER FOR SEMISTER II
2022
Maximum Marks: 50
Time allowed: One and a half hours

SECTION A
(Attempt all questions.)
1 x 10=10

Question 1
Choose the correct answers to the questions from the given options. (Do not copy the question, Tick the correct answer only.)

a) What do you mean by encapsulation?

  i.   A method of combining data and its associated functions in the form of single unit
  ii.   Use of only one function and multiple class variables
  iii.   Use of only class variable and multiple method
  iv.   None of these

b) A package contains:

  i.   Tags
  ii.   Classes
  iii.   Data
  iv.   Arrays

c) Automatic conversion of primitive data into an object of wrapper class is called:

  i.   Autoboxing
  ii.   Shifting
  iii.   Explicit conversion
  iv.   None of these

d) The valueOf function converts:

  i.   Primitive of String
  ii.   String to primitive type
  iii.   Character to String
  iv.   None of these

e) Name the package that contains wrapper classes.

  i.   Java.util
  ii.   Java.lang
  iii. Java.io
  iv.   Java.wrap

f) Write the purpose of Float.parseFloat().

  i.   Changes the input string to float
  ii.   Change to float to double
  iii.   Change the input float to string
  iv.   None of these

g) What do you mean by subscripted variable?

i. The variable after initialization
ii. The variable represented by the subscript of an array
iii. The last element of an array
iv. None of these

h) Write the output of the following:

```
int a[ ] = { 5, 8, 7, 3, 2 };
a[ 1 ] = a[ 3 ];
a[ 2 ] = a[ 4 ];
a[ 3 ] = a[ 1 ] + a[ 2 ];
for ( int i = 0; i < 5; i + + )
System.out.print( a[ i ] + "," );
```

i. 5,3,2,5,2
ii. 5,5,3,2,1
iii. 1,2,3,4,5

i) Give the output of the following string functions:
 "Eating".compareTo("Coding")
.

i. 2
ii. 3
iii. -2
iv. -3

j) What is the difference between the compareTo() and equals() method?

i. Return type. compareTo() returns an integer and equals() returns Boolean
ii. Knowledge of the strings. compareTo() returns the lexicographic status while equals() returns only whether the String are equal or not
iii. Both (i) and (ii)
iv. They are the same functions, with name changed

SECTION B
*(Attempt **any four** questions.)*
10x4=40

Q2.Write a program in Java to accept a word and display the ASCII code of each character of the word.
Sample Input: BLUEJ
Sample Output:
ASCII of B = 66
ASCII of L = 76
ASCII of U = 85
ASCII of E = 69
ASCII of J = 74

Q3write a program to input a string and print frequency of each character of the string

Q4. Write a program to store 10 words in a SDA. Display only those words which are palindrome

Q5.Write a program to accept 10 different numbers in a S.D.A. Enter a number and using binary search technique check whether the number is present or not in the array.

Q6.Write a program in java to store 10 numbers in SDA and display only those which are prime.